

Colorado Basin River Forecast Center Stakeholder Forum

Beyond The Streamflow Forecast

What is affecting short term forecasts

Tracking conditions within the River Basin

Seasonal discussions / Seasonal trends

Providing the most pertinent information

Future Improvements (keeping it simple yet informative)

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Web Page
Navigation



COLORADO BASIN RIVER FORECAST CENTER

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[HOME](#)

[RIVERS](#)

[SNOW](#)

[WATER SUPPLY](#)

[RESERVOIRS](#)

[WEATHER](#)

[CLIMATE](#)

[HELP](#)

[OFFICE](#)

[LINKS](#)

[SEARCH](#)

News

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Next CBRFC Webinar March 6 [Read More...](#)

River Conditions

Search Points

Forecast Group

CBRFC

Overlays

- ☒ Rivers
- ☒ RFC Boundary
- ☐ Forecast Groups
- ☐ Basins

River Points

- ☐ All
- ☐ Data
- ☒ Forecast
- ☐ Reservoir
- ☒ Official Flood
- ☒ Active

Snow Sites

- ☐ All

HOME

[CBRFC](#)
[National Weather Service](#)
[National Oceanic and Atmospheric Administration](#)
[Department of Commerce](#)

RIVERS

[Conditions Map](#)
[Conditions List](#)
[Peak Flow List](#)
[Peak Flow Archive](#)
[Recreational Forecasts](#)
[Text Products](#)
[5 Day Flood Outlook](#)
[Hydro Data](#)
[AHPS](#)

SNOW

[Conditions Map](#)
[Conditions List](#)
[Snow Groups](#)

WATER SUPPLY

[Forecast Map](#)
[Forecast List](#)
[Discussion](#)
[Publication](#)
[Publication Archive](#)
[Specific Site Archive](#)
[Daily ESP](#)
[Text Outlooks](#)
[Documentation](#)
[Precipitation](#)
[Temperature](#)
[Soil Moisture](#)
[Internal Tools](#)

RESERVOIRS

[Conditions List](#)
[Damcrit](#)
[Webcat](#)
[DamBreak](#)

WEATHER

[Forecast](#)
[Observed](#)
[Text Products](#)
[Radar](#)
[Satellite](#)
[Legacy](#)

CLIMATE

[Hydroclimatology](#)
[Climate Change](#)
[Data and Indices](#)
[Forecasts](#)
[El Nino and MJO](#)

HELP

[General](#)
[Water Supply Forecasts](#)
[Peak Forecasts](#)

OFFICE

[News](#)
[Email Updates](#)
[Information](#)
[Contact Us](#)
[Papers and Presentation](#)
[Podcasts](#)
[Downloads](#)

LINKS

[NWS Offices](#)
[Other Links](#)
[Wiki](#)
[Links](#)
[Schedule](#)
[Old SDM](#)

[Help](#) Double Click Map to Zoom, Data Queried: Thu, 20 Feb 2014 08:55:02 -0700, Lat: 37.6 Lng: -110.5, Zoom: 6



River

- ☐ No Data
- ☒ Normal
- ☐ Significant Rise
- ☐ Near Bankfull
- ☐ Above Bankfull
- ☐ Above Flood Stage
- ☐ Outlook (> 3 days)

Snow

- ☐ Percentiles
- ☐ Percent Average
- ☒ Percent Median
- ☐ No Data
- ☐ < 25%
- ☐ 25-50%
- ☐ 50-75%
- ☐ 75-90%
- ☐ 90-110%
- ☐ 110-125%
- ☐ 125-150%
- ☐ 150-175%
- ☐ >175%



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[HOME](#)

[RIVERS](#)

[SNOW](#)

[WATER SUPPLY](#)

[RESERVOIRS](#)

[WEATHER](#)

[CLIMATE](#)

[HELP](#)

[OFFICE](#)

[LINKS](#)

[SEARCH](#)

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River Conditions

Search Points

Forecast Group

CBRFC

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Upper Colorado

Col abv Kremmling
Eagle-Roaring Fork
Gunnison
Dolores
Lake Powell

Green

Upper Green
White-Yampa
Duchesne-Price
San Rafael-Dirty Devil

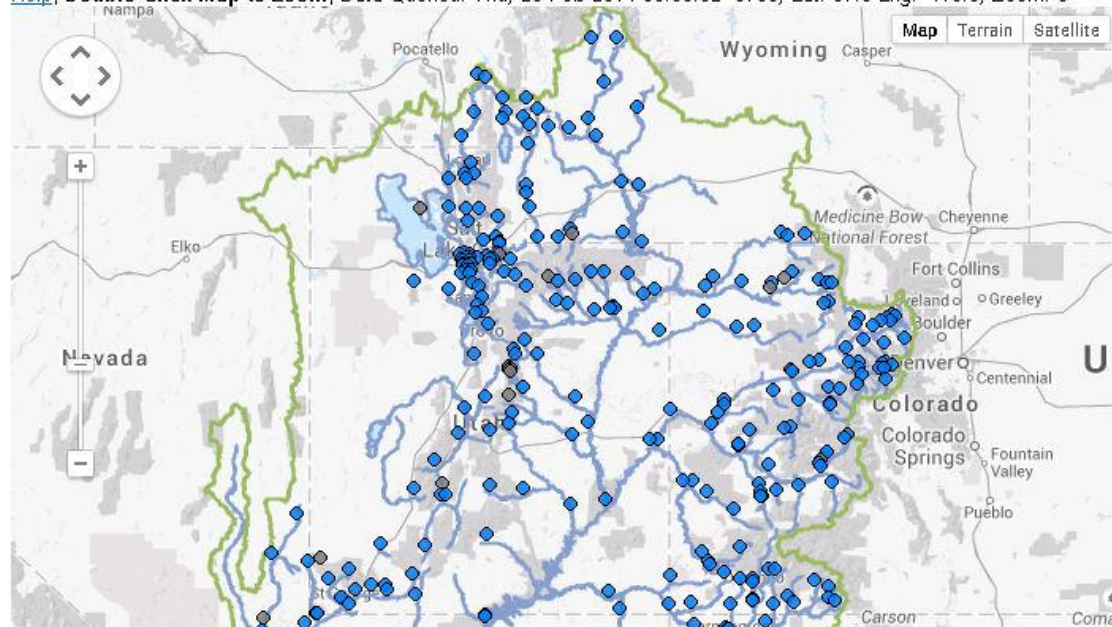
San Juan

San Juan

Great

Bear
Weber
Six Creeks-Jordan
Provo-Utah Lake
Salt Lake

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River

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- ◆ Near Bankfull
- ◆ Above Bankfull
- ◆ Above Flood Stage
- ◆ Outlook (> 3 days)

Snow

- Percentiles
- Percent Average
- Percent Median

□ No Data

- < 25%
- 25-50%
- 50-75%
- 75-90%
- 90-110%
- 110-125%
- 125-150%
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- >175%

HOME

[CBRFC](#)

[National Weather Service](#)
[National Oceanic and Atmospheric Administration](#)
[Department of Commerce](#)

RIVERS

[Conditions Map](#)
[Conditions List](#)
[Peak Flow List](#)
[Peak Flow Archive](#)
[Recreational Forecasts](#)
[Text Products](#)
[5 Day Flood Outlook](#)
[Hydro Data](#)
[AHPS](#)

SNOW

[Conditions Map](#)
[Conditions List](#)
[Snow Groups](#)

WATER SUPPLY

[Forecast Map](#)
[Forecast List](#)
[Discussion](#)
[Publication](#)
[Publication Archive](#)
[Specific Site Archive](#)
[Daily ESP](#)
[Text Outlooks](#)
[Documentation](#)
[Precipitation](#)
[Temperature](#)
[Soil Moisture](#)
[Internal Tools](#)

RESERVOIRS

[Conditions List](#)
[Damcrit](#)
[Webcat](#)
[DamBreak](#)

WEATHER

[Forecast](#)
[Observed](#)
[Text Products](#)
[Radar](#)
[Satellite](#)
[Legacy](#)

CLIMATE

[Hydroclimatology](#)
[Climate Change](#)
[Data and Indices](#)
[Forecasts](#)
[El Nino and MJO](#)

HELP

[General](#)
[Water Supply Forecasts](#)
[Peak Forecasts](#)

OFFICE

[News](#)
[Email Updates](#)
[Information](#)
[Contact Us](#)
[Papers and Presentation](#)
[Podcasts](#)
[Downloads](#)

LINKS

[NWS Offices](#)
[Other Links](#)
[Wiki](#)
[Links](#)
[Schedule](#)
[Old SDM](#)



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HOME

RIVERS

SNOW

WATER SUPPLY

RESERVOIRS

WEATHER

CLIMATE

HELP

OFFICE

LINKS

SEARCH

News

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River Conditions

fgrp=SANJUAN

Search Points

Forecast Group

San Juan

Overlays

- ☒ Rivers
- ☒ RFC Boundary
- ☒ Forecast Groups
- ☐ Basins

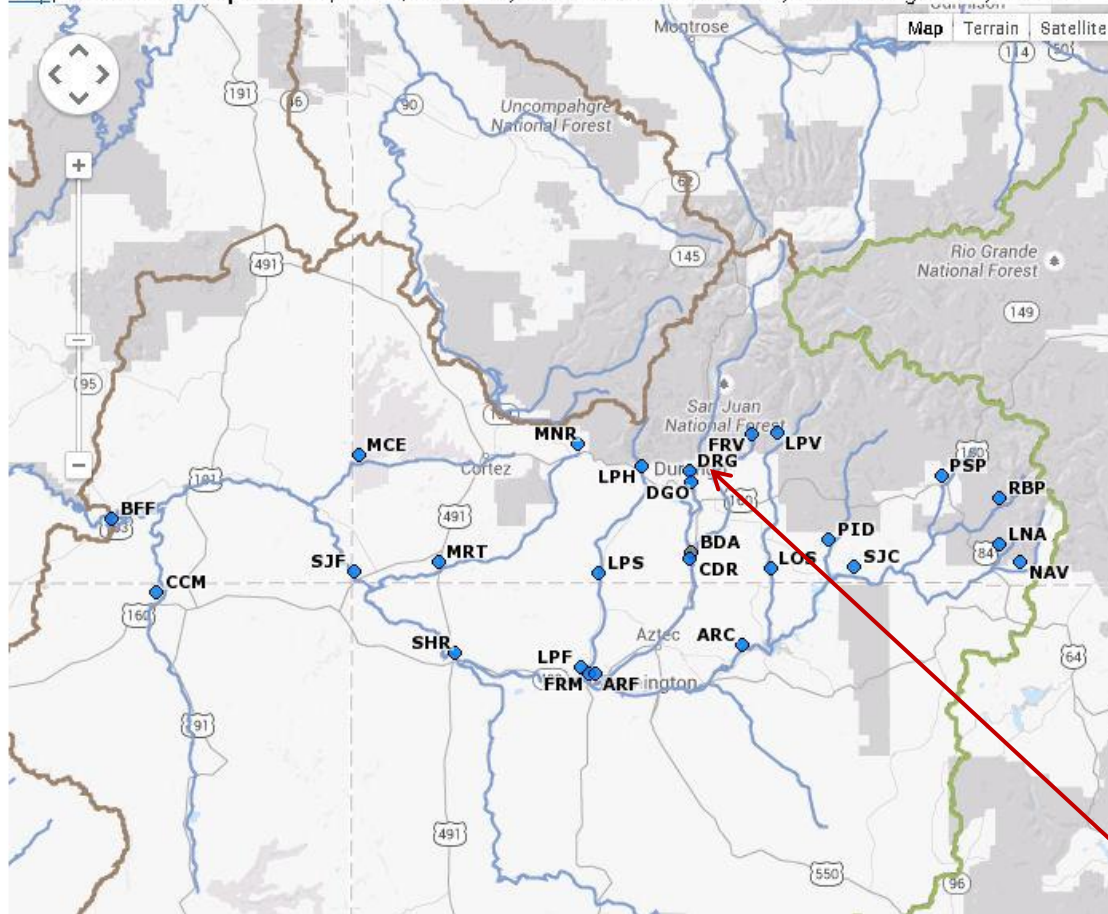
River Points

- ☐ All
- ☐ Data
- ☒ Forecast
- ☐ Reservoir
- ☒ Official Flood
- ☒ Active

Snow Sites

- ☐ All
- ☐ No Data
- ☐ No Average
- ☐ < 7000 ft
- ☐ 7000-8000 ft
- ☐ 8000-9000 ft
- ☐ 9000-10000 ft
- ☐ > 10000 ft

Help, Double Click Map to Zoom, Data Queried: Thu, 20 Feb 2014 09:10:01 -0700, Lat: 37.6 Lng: -110.5, Zoom: 6



River

- ◆ No Data
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- ◆ Above Bankfull
- ◆ Above Flood Stage
- ◆ Outlook (> 3 days)

Snow

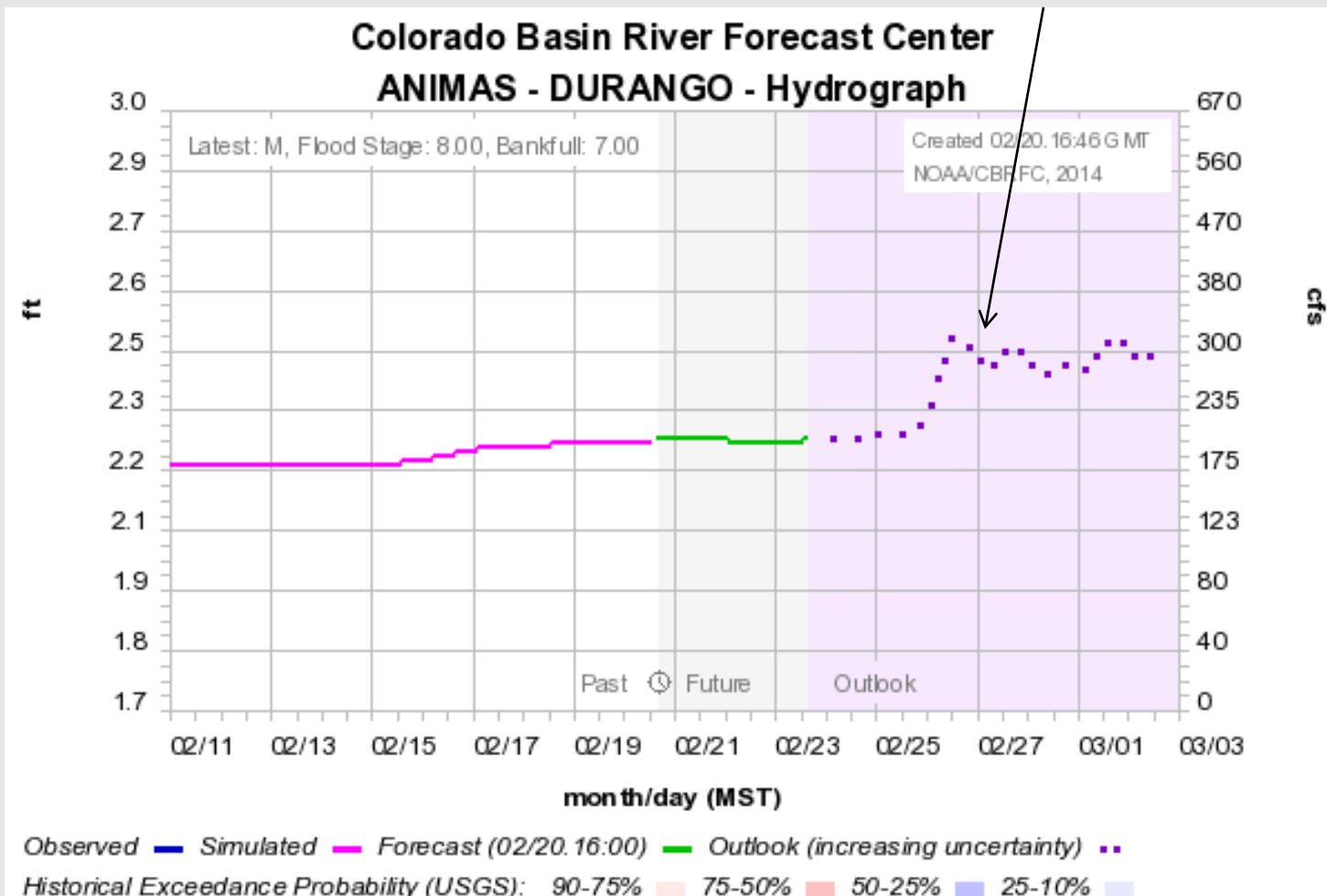
- Percentiles
- Percent Average
- Percent Median
- ☐ No Data
- < 25%
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- 90-110%
- 110-125%
- 125-150%
- 150-175%
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fgrp=SANJUAN

(26 River Points Found)

- ◆ ARC: San Juan, Archuleta
- ◆ ARF: Animas, Farmington
- ◆ BDA: Florida, Bondad, Nr
- ◆ BFF: San Juan, Bluff, Nr
- ◆ CCM: Chinle Ck, Mexican Vv
- ◆ CDR: Animas, Cedar Hill, Nr
- ◆ DGO: Animas, Durango Purr
- ◆ DRG: Animas, Durango
- ◆ FRM: San Juan, Farmington

Future Rise – Precipitation ?
Temperature ?
Upstream Regulation ?





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[HOME](#)[RIVERS](#)[SNOW](#)[WATER SUPPLY](#)[RESERVOIRS](#)[WEATHER](#)[CLIMATE](#)[HELP](#)[OFFICE](#)[LINKS](#)[SEARCH](#)

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River Conditions

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- ☐ Reservoir
- ☒ Official Flood
- ☒ Active

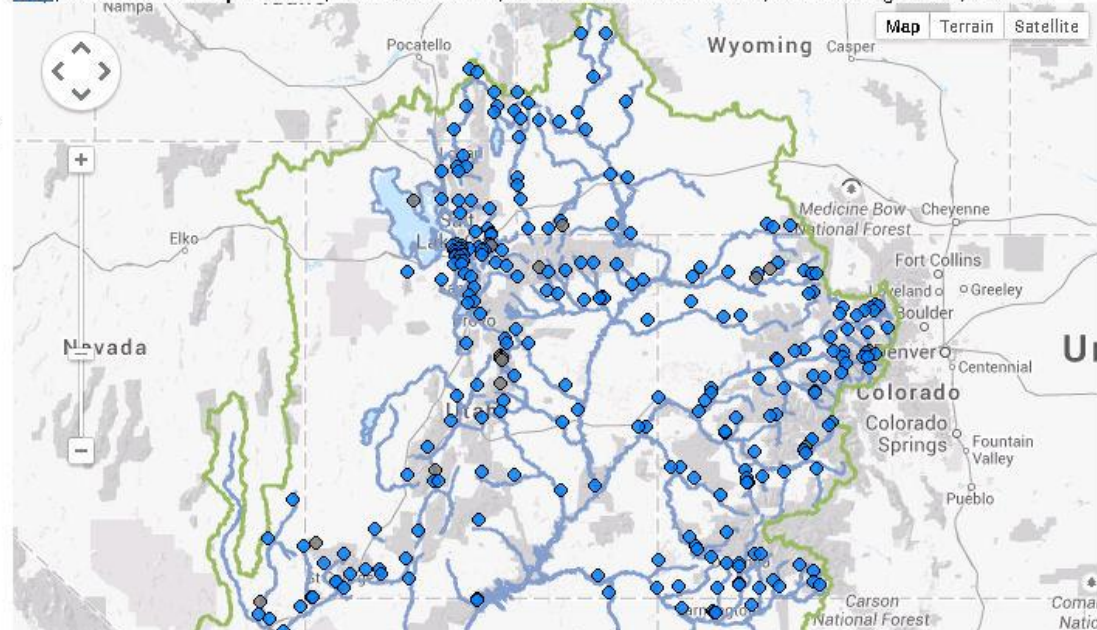
Snow Sites

- ☐ All

HOME

[CBRFC](#)
[National Weather Service](#)
[National Oceanic and Atmospheric Administration](#)
[Department of Commerce](#)

[Help](#), [Double Click Map to Zoom](#), Data Queried: Thu, 20 Feb 2014 08:55:02 -0700, Lat: 37.6 Lng: -110.5, Zoom: 6



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RIVERS

[Conditions Map](#)
[Conditions List](#)
[Peak Flow List](#)
[Peak Flow Archive](#)
[Recreational Forecasts](#)
[Text Products](#)
[5 Day Flood Outlook](#)
[Hydro Data](#)
[AHPS](#)

SNOW

[Conditions Map](#)
[Conditions List](#)
[Snow Groups](#)

WATER SUPPLY

[Forecast Map](#)
[Forecast List](#)
[Discussion](#)
[Publication](#)
[Publication Archive](#)
[Specific Site Archive](#)
[Daily ESP](#)
[Text Outlooks](#)
[Documentation](#)
[Precipitation](#)
[Temperature](#)
[Soil Moisture](#)
[Internal Tools](#)

RESERVOIRS

[Conditions List](#)
[Damcrit](#)
[Webcat](#)
[DamBreak](#)

WEATHER

[Forecast](#)
[Observed](#)
[Text Products](#)
[Radar](#)
[Satellite](#)
[Legacy](#)

CLIMATE

[Hydroclimatology](#)
[Climate Change](#)
[Data and Indices](#)
[Forecasts](#)
[El Nino and MJO](#)

HELP

[General](#)
[Water Supply Forecasts](#)
[Peak Forecasts](#)

OFFICE

[News](#)
[Email Updates](#)
[Information](#)
[Contact Us](#)
[Papers and Presentation](#)
[Podcasts](#)
[Downloads](#)

LINKS

[NWS Offices](#)
[Other Links](#)
[Wiki](#)
[Links](#)
[Schedule](#)
[Old SDM](#)

Quantitative Precipitation Forecast (QPF)

Forecast Type: Precipitation Temperature

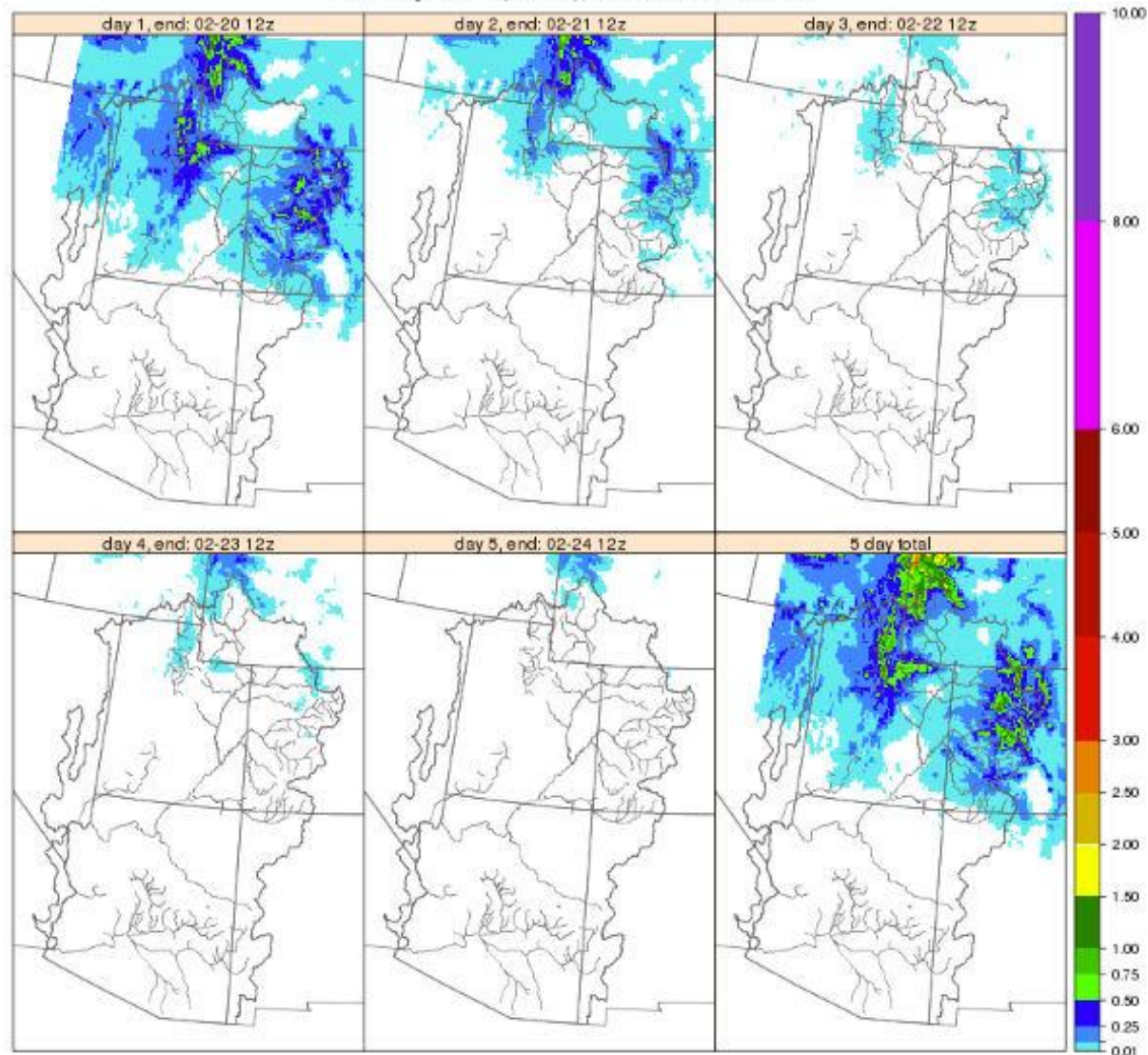
Year: 2013 2014

Month: 01 02

Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19

Duration: Daily 6 Hourly

QPF Daily Totals (inches), issued: 02-19-2014 12z



Quantitative Temperature Forecast (QPF)

Forecast Type: Precipitation Temperature

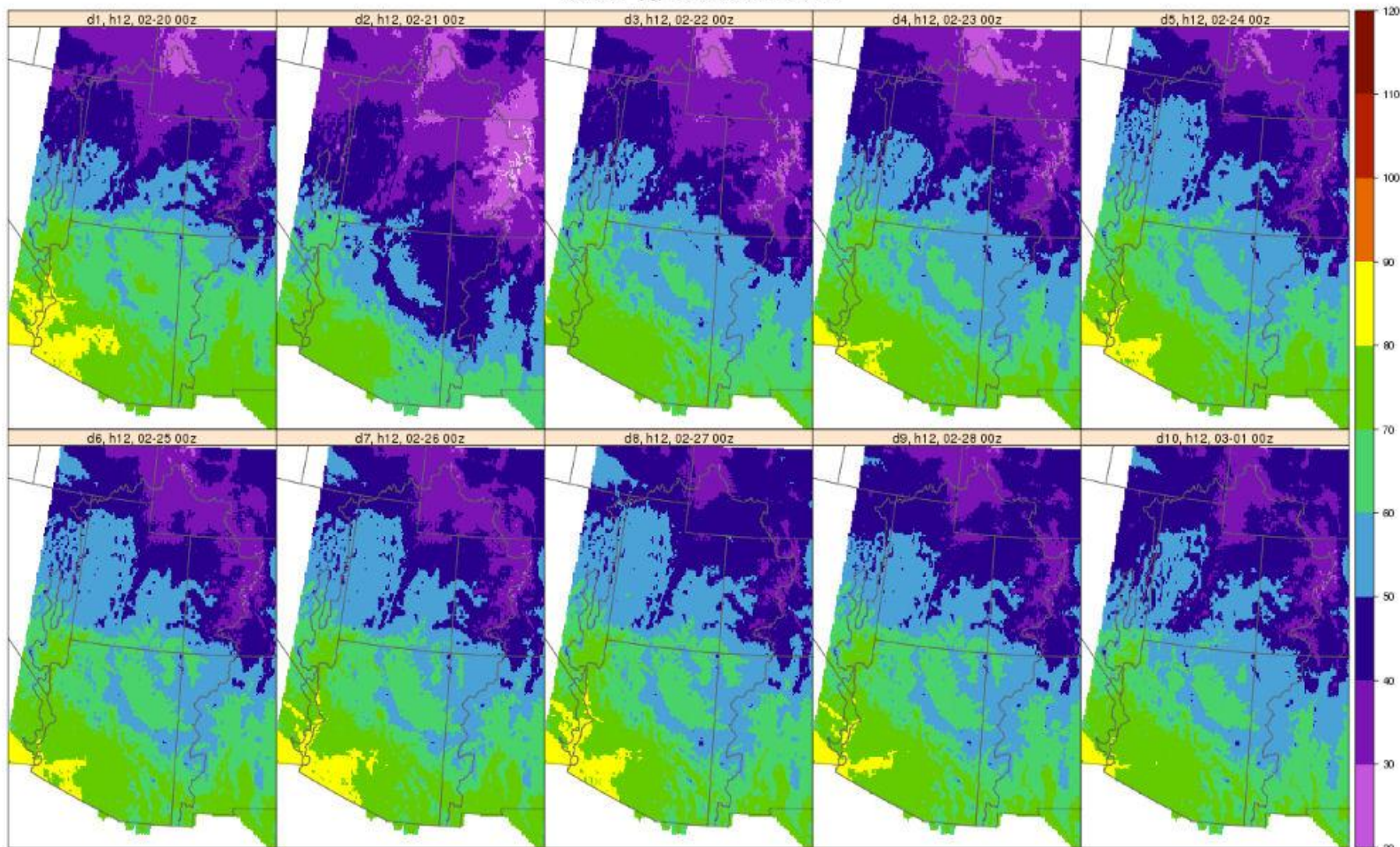
Year: 2013 2014

Month: 01 02

Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19

Hour: 6 12 18 24

QTF 6 Hr (F), issued: 02-19-2014 12z



Colorado Basin River Forecast Center Stakeholder Forum

Beyond The Streamflow Forecast

Tracking conditions within the River Basin

Precipitation (recent, monthly, seasonal)

Snow conditions (points, basins, comparison abilities)

Soil Moisture (Impacts to forecasts & runoff)



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[HOME](#)[RIVERS](#)[SNOW](#)[WATER SUPPLY](#)[RESERVOIRS](#)[WEATHER](#)[CLIMATE](#)[HELP](#)[OFFICE](#)[LINKS](#)[SEARCH](#)

News

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River Conditions

Forecast Group

Overlays

- ☒ Rivers
- ☒ RFC Boundary
- ☐ Forecast Groups
- ☐ Basins

River Points

- ☐ All
- ☐ Data
- ☒ Forecast
- ☐ Reservoir
- ☒ Official Flood
- ☒ Active

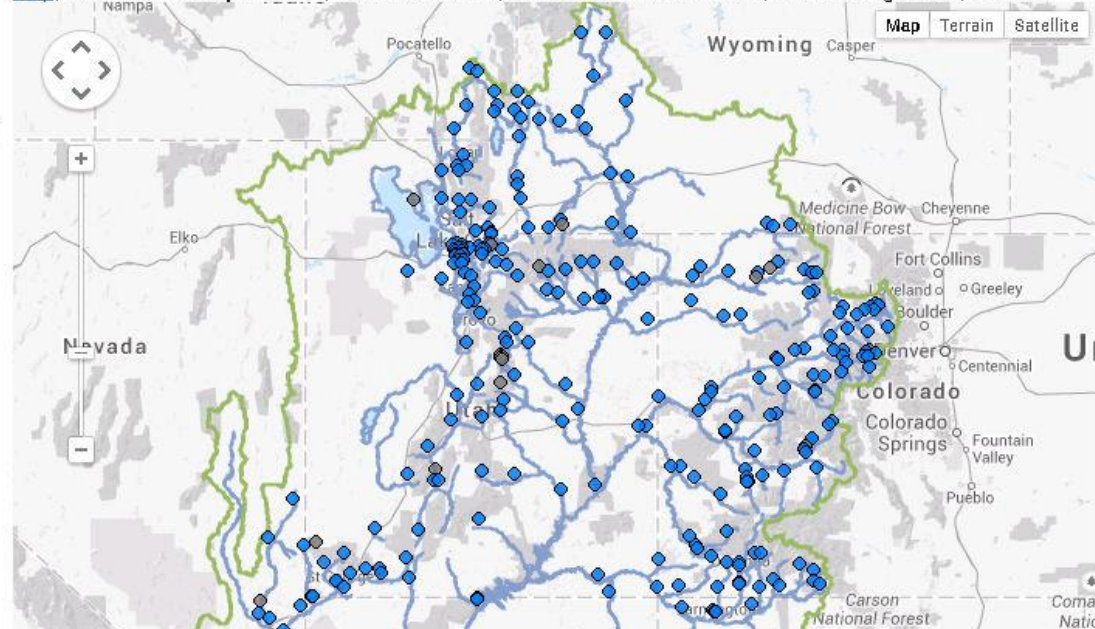
Snow Sites

- ☐ All

HOME

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[National Weather Service](#)
[National Oceanic and Atmospheric Administration](#)
[Department of Commerce](#)

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- ☐ Percent Average
- ☒ Percent Median
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- ☐ 25-50%
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RIVERS

[Conditions Map](#)
[Conditions List](#)
[Peak Flow List](#)
[Peak Flow Archive](#)
[Recreational Forecasts](#)
[Text Products](#)
[5 Day Flood Outlook](#)
[Hydro Data](#)
[AHPS](#)

SNOW

[Conditions Map](#)
[Conditions List](#)
[Snow Groups](#)

WATER SUPPLY

[Forecast Map](#)
[Forecast List](#)
[Discussion](#)
[Publication](#)
[Publication Archive](#)
[Specific Site Archive](#)
[Daily ESP](#)
[Text Outlooks](#)
[Documentation](#)
[Precipitation](#)
[Temperature](#)
[Soil Moisture](#)
[Internal Tools](#)

RESERVOIRS

[Conditions List](#)
[Damcrit](#)
[Webcat](#)
[DamBreak](#)

WEATHER

[Forecast](#)
[Observed](#)
[Text Products](#)
[Radar](#)
[Satellite](#)
[Legacy](#)

CLIMATE

[Hydroclimatology](#)
[Climate Change](#)
[Data and Indices](#)
[Forecasts](#)
[El Nino and MJO](#)

HELP

[General](#)
[Water Supply Forecasts](#)
[Peak Forecasts](#)

OFFICE

[News](#)
[Email Updates](#)
[Information](#)
[Contact Us](#)
[Papers and Presentation](#)
[Podcasts](#)
[Downloads](#)

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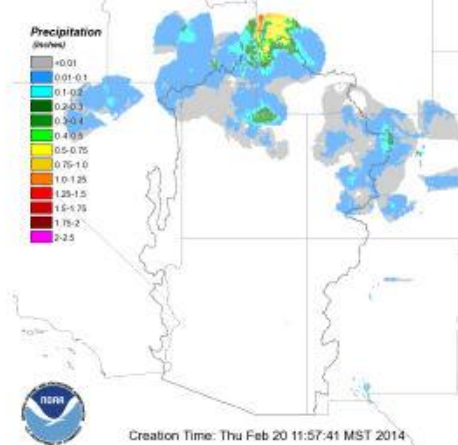
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[Other Links](#)
[Wiki](#)
[Links](#)
[Schedule](#)
[Old SDM](#)

Recent Weather

24 Hour Observed Weather -- Ending 12Z Monday, February 17

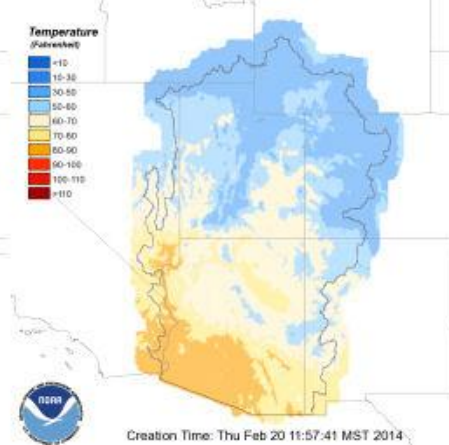
Precipitation 02/17/2014

Observed 24hr Precipitation, Ending 12Z, 02/17/2014



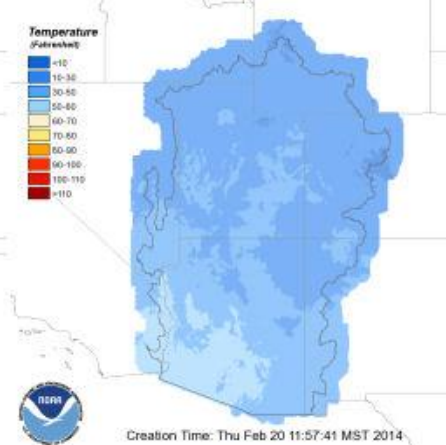
Max Temperature 02/17/2014

Observed Max Temperature, Ending 12Z, 02/17/2014



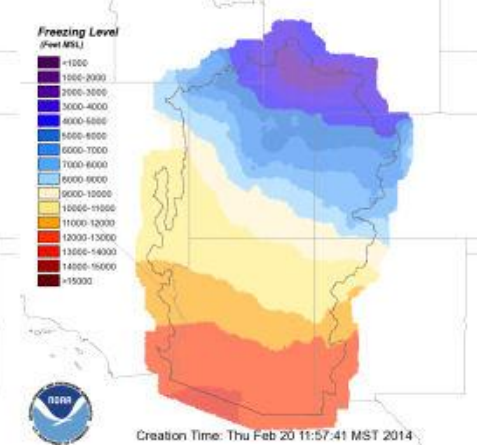
Min Temperature 02/17/2014

Observed Min Temperature, Ending 12Z, 02/17/2014



Freezing Level 02/17/2014

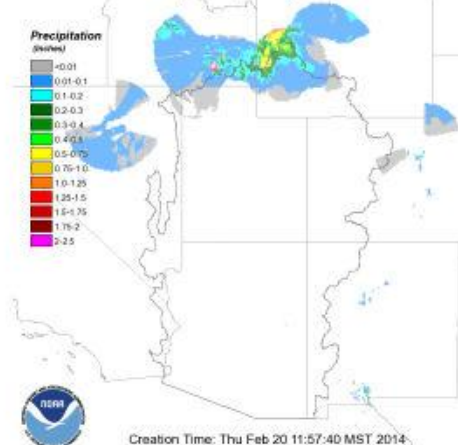
Observed Freezing Level, Ending 12Z, 02/17/2014



24 Hour Observed Weather -- Ending 12Z Sunday, February 16

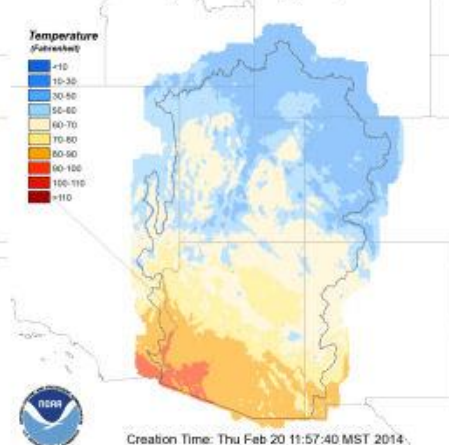
Precipitation 02/16/2014

Observed 24hr Precipitation, Ending 12Z, 02/16/2014



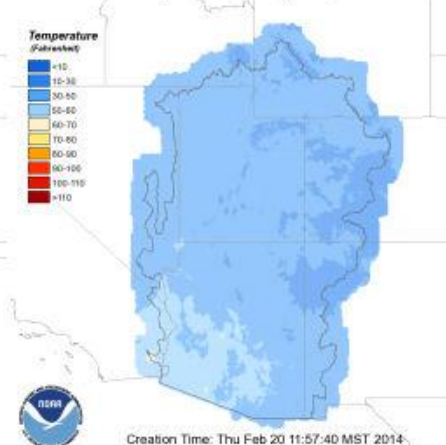
Max Temperature 02/16/2014

Observed Max Temperature, Ending 12Z, 02/16/2014



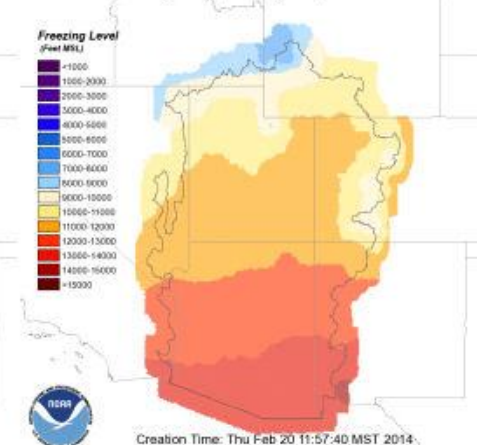
Min Temperature 02/16/2014

Observed Min Temperature, Ending 12Z, 02/16/2014



Freezing Level 02/16/2014

Observed Freezing Level, Ending 12Z, 02/16/2014





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[HOME](#)[RIVERS](#)[SNOW](#)[WATER SUPPLY](#)[RESERVOIRS](#)[WEATHER](#)[CLIMATE](#)[HELP](#)[OFFICE](#)[LINKS](#)[SEARCH](#)

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Forecast Group

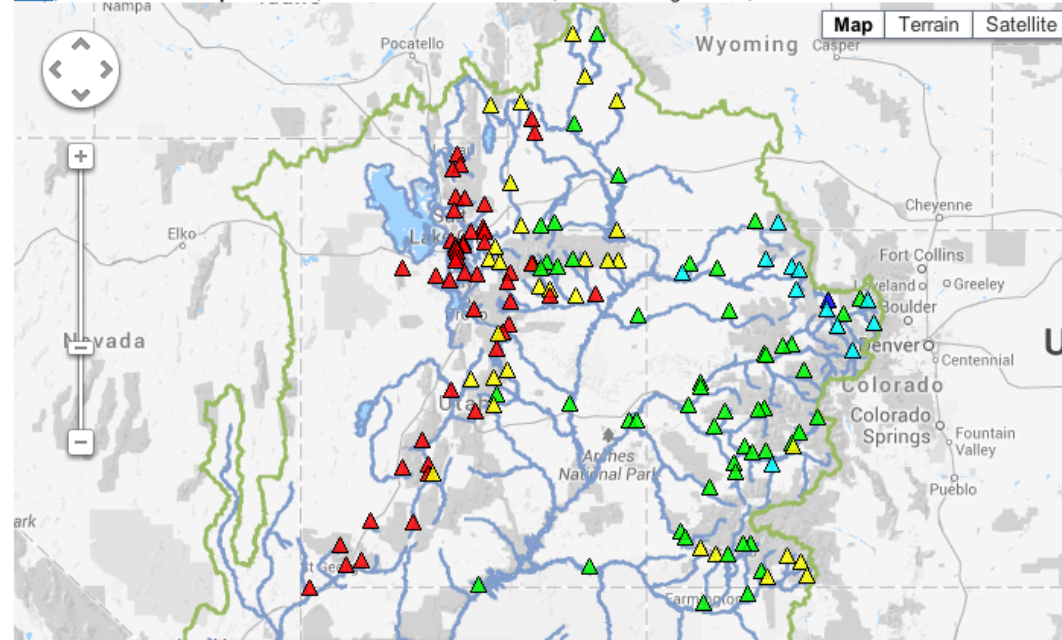
Overlays

- ☒ Rivers
- ☒ RFC Boundary
- ☐ Forecast Groups
- ☐ Basins

Snow Sites

- ☐ All
- ☐ No Data
- ☐ No Average
- ☐ < 7000 ft
- ☐ 7000-8000 ft
- ☐ 8000-9000 ft
- ☐ 9000-10000 ft
- ☐ > 10000 ft

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Map Terrain Satellite

Water Supply Forecasts

- ☐ Official
- ☒ ESP Percent Average
- ☐ ESP Percent Median
- ☒ < 70%
- ☐ 70-90%
- ☐ 90-110%
- ☐ 110-130%
- ☐ > 130%
- ☐ Regulated
- ☐ No Forecast

Snow

- ☐ Percentiles
- ☐ Percent Average
- ☒ Percent Median
- ☐ No Data
- ☐ < 25%
- ☐ 25-50%
- ☐ 50-75%
- ☐ 75-90%
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HOME

CBRFC
National Weather Service
National Oceanic and
Atmospheric Administration
Department of Commerce

RIVERS

Conditions Map
Conditions List
Peak Flow List
Peak Flow Archive
Recreational Forecasts
Text Products
5 Day Flood Outlook
Hydro Data
AHPS

SNOW

Conditions Map
Conditions List
Snow Groups

WATER SUPPLY

Forecast Map
Forecast List
Discussion
Publication
Publication Archive
Specific Site Archive
Daily ESP
Text Outlooks
Documentation
Precipitation
Temperature
Soil Moisture
Internal Tools

RESERVOIRS

Conditions List
Damcrit
Webcat
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WEATHER

Forecast
Observed
Text Products
Radar
Satellite
Legacy

CLIMATE

Hydroclimatology
Climate Change
Data and Indices
Forecasts
El Nino and MJO

HELP

General
Water Supply Forecasts
Peak Forecasts

OFFICE

News
Email Updates
Information
Contact Us
Papers and Presentation
Podcasts
Downloads

LINKS

NWS Offices
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Wiki
Links
Schedule
Old SDM

Precipitation Summaries - CBRFC - 2014

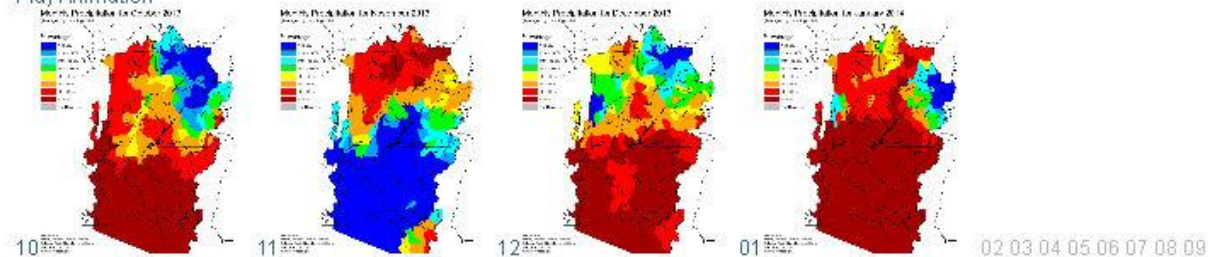
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Choose Area: [CBRFC](#) | [Western US](#)

Choose Year: [2014](#) 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996

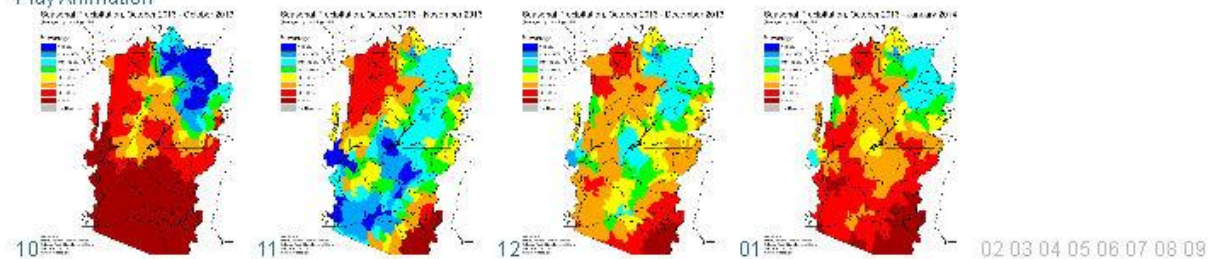
Monthly

[Play Animation](#)



Seasonal

[Play Animation](#)

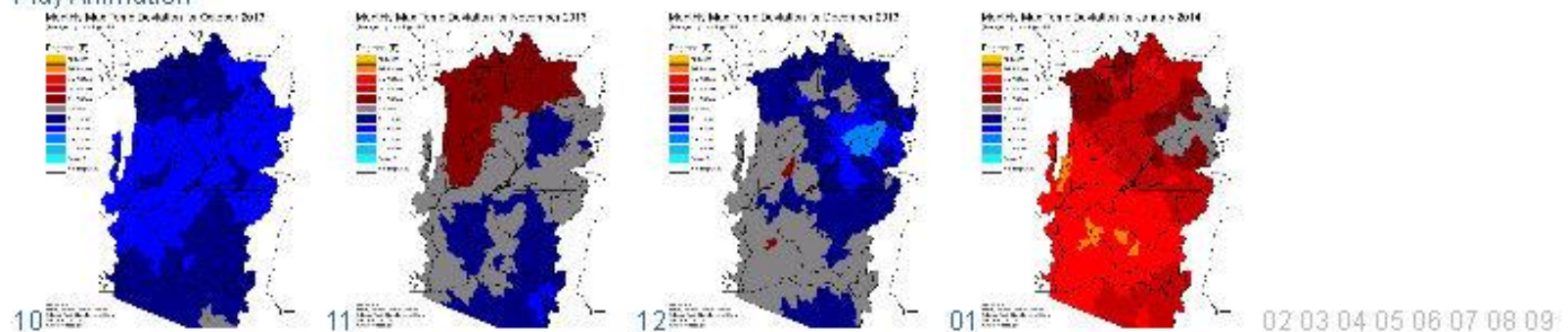


Maximum Temperature Deviation - CBRFC - 2014

Choose Type: [Max Temp](#) | [Min Temp](#)

Choose Year: [2014](#) 2013 2012 2011 2010 2009 2008 2007 2006 2005

[Play Animation](#)





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[HOME](#)[RIVERS](#)[SNOW](#)[WATER SUPPLY](#)[RESERVOIRS](#)[WEATHER](#)[CLIMATE](#)[HELP](#)[OFFICE](#)[LINKS](#)[SEAR](#)

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Forecast Group

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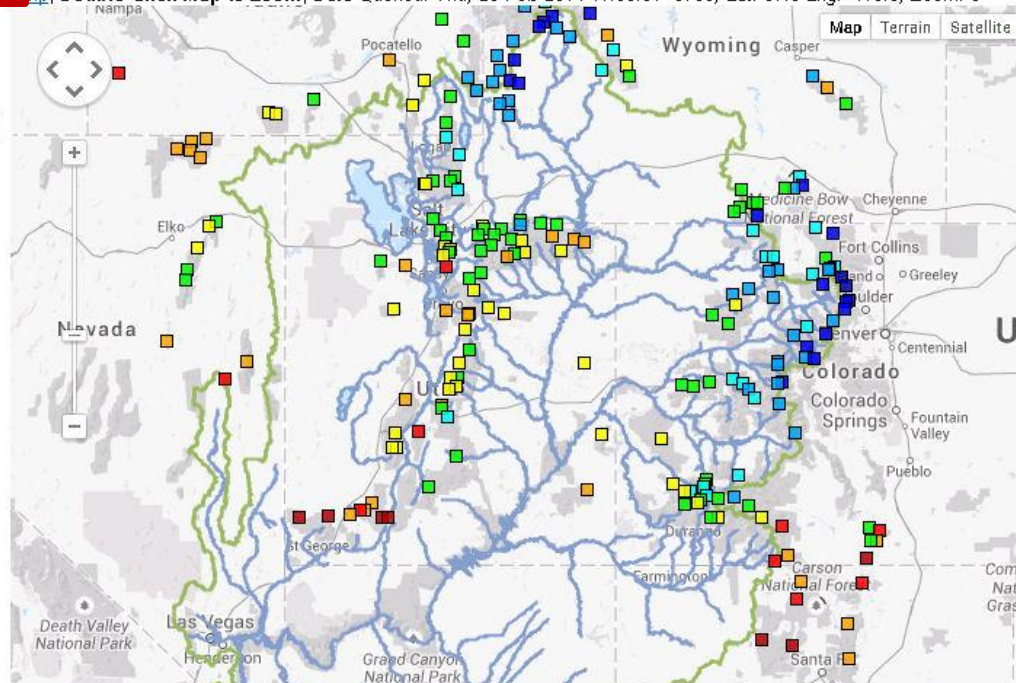
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- ☐ No Data
- ☐ No Average
- ☒ < 7000 ft
- ☒ 7000-8000 ft
- ☒ 8000-9000 ft
- ☒ 9000-10000 ft
- ☒ > 10000 ft

Help, Double Click Map to Zoom, Data Queried: Thu, 20 Feb 2014 11:05:01 -0700, Lat: 37.6 Lng: -110.5, Zoom: 6



Snow

- ☐ Percentiles
- ☐ Percent Average
- ☒ Percent Median
- ☐ No Data
- ☒ < 25%
- ☐ 25-50%
- ☐ 50-75%
- ☐ 75-90%
- ☐ 90-110%
- ☐ 110-125%
- ☐ 125-150%
- ☐ 150-175%
- ☐ > 175%

HOME

[CBRFC](#)
[National Weather Service](#)
[National Oceanic and Atmospheric Administration](#)
[Department of Commerce](#)

RIVERS

[Conditions Map](#)
[Conditions List](#)
[Peak Flow List](#)
[Peak Flow Archive](#)
[Recreational Forecasts](#)
[Text Products](#)
[5 Day Flood Outlook](#)
[Hydro Data](#)
[AHPS](#)

SNOW

[Conditions Map](#)
[Conditions List](#)
[Snow Groups](#)

WATER SUPPLY

[Forecast Map](#)
[Forecast List](#)
[Discussion](#)
[Publication](#)
[Publication Archive](#)
[Specific Site Archive](#)
[Daily ESP](#)
[Text Outlooks](#)
[Documentation](#)
[Precipitation](#)
[Temperature](#)
[Soil Moisture](#)
[Internal Tools](#)

RESERVOIRS

[Conditions List](#)
[Damcrit](#)
[Webcat](#)
[DamBreak](#)

WEATHER

[Forecast](#)
[Observed](#)
[Text Products](#)
[Radar](#)
[Satellite](#)
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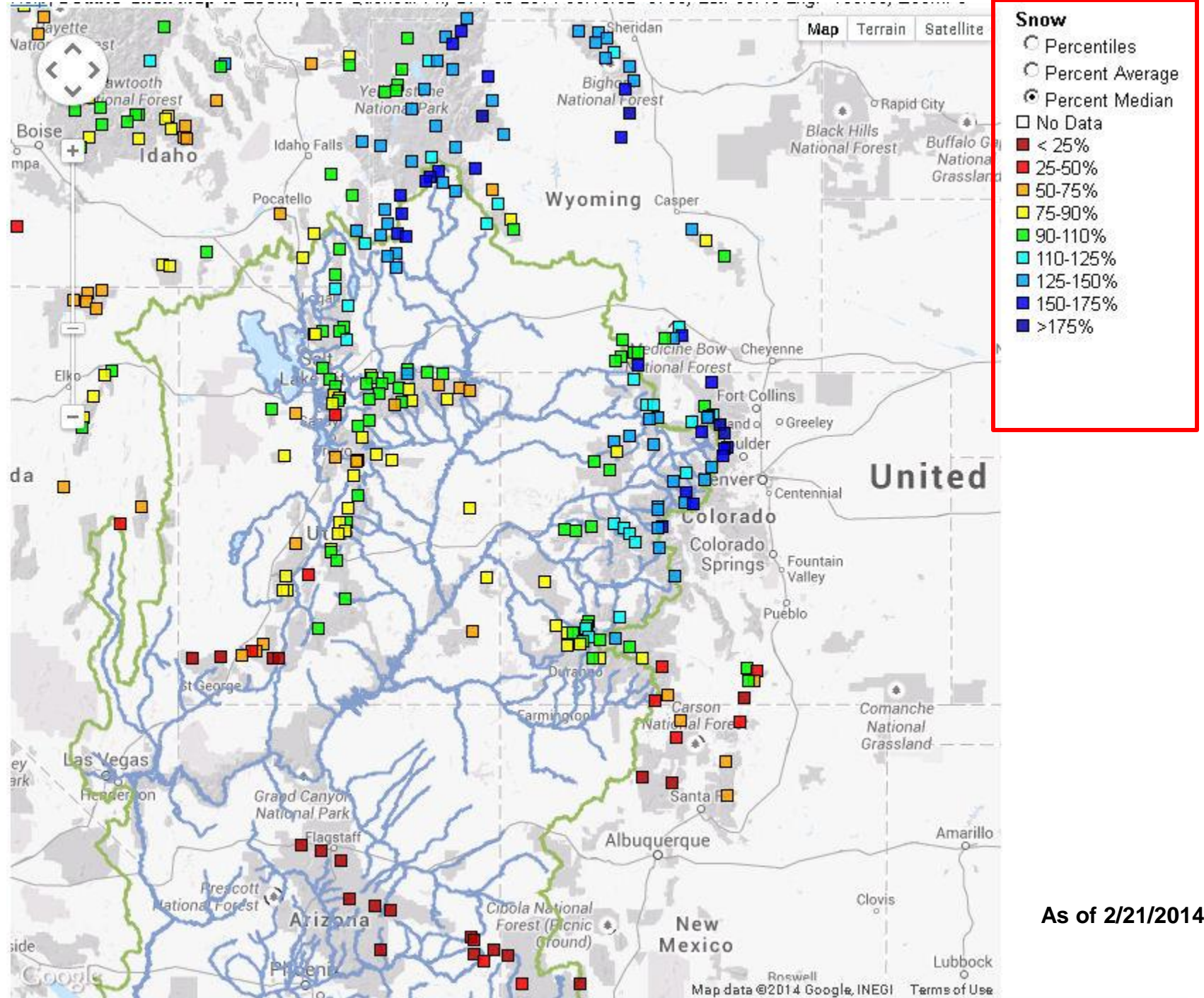
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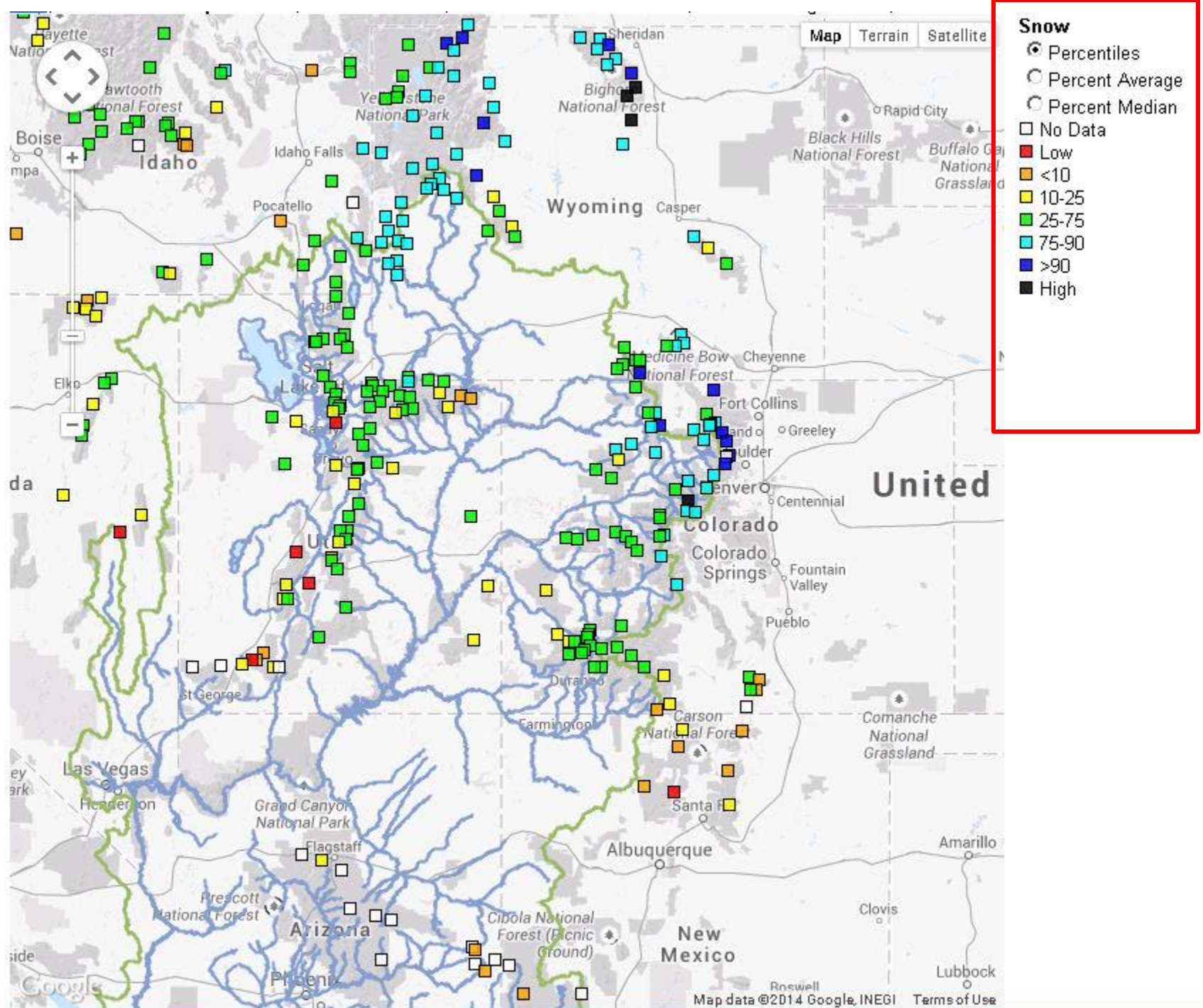
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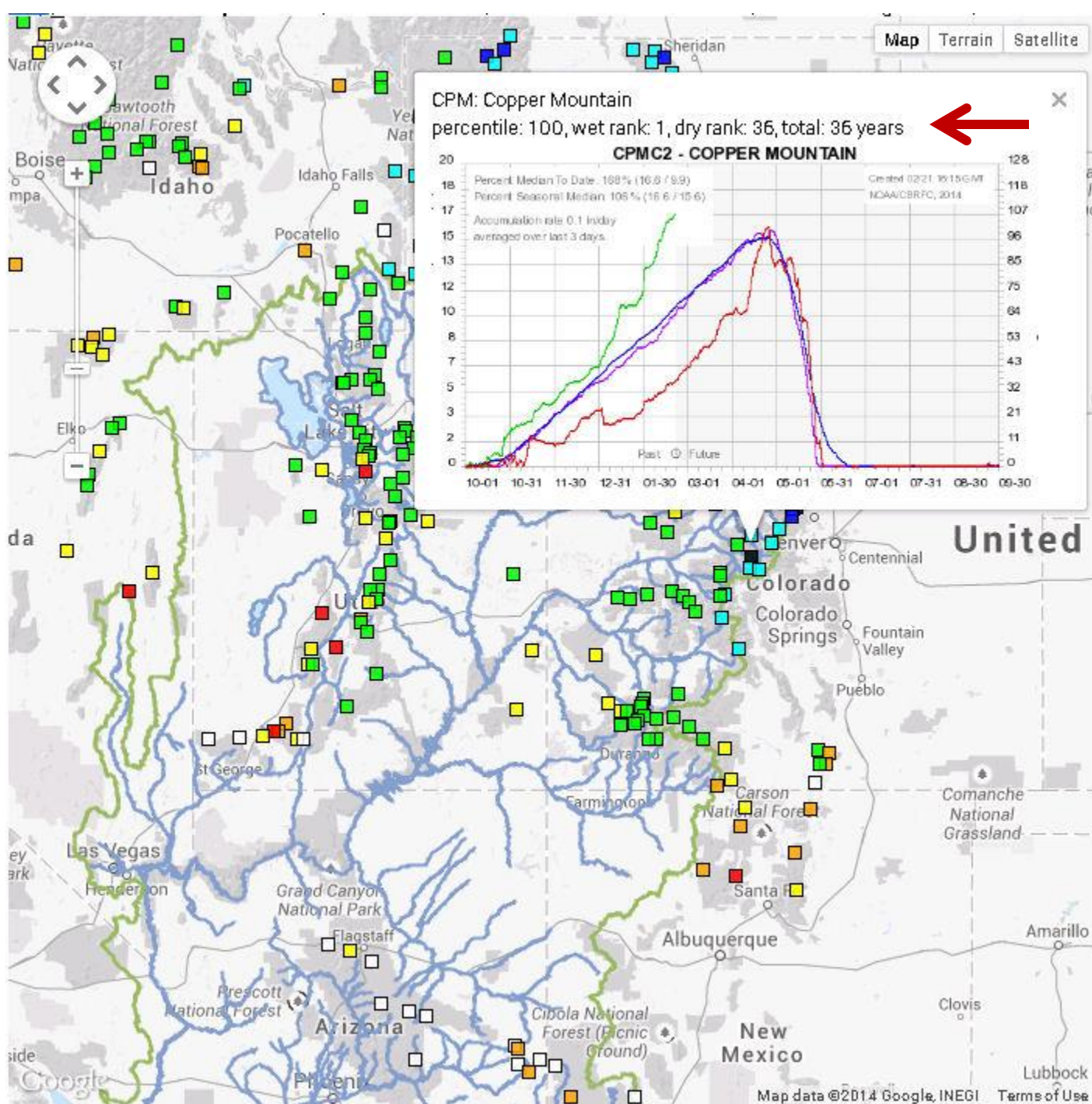
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[Links](#)
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[Old SDM](#)







Snow

- Percentiles
- Percent Average
- Percent Median
- No Data
- Low
- <10
- 10-25
- 25-75
- 75-90
- >90
- High

Green River

Duchesne River (icyu1 wrvu1 stdu1 dstu1 cucu1 trlu1 rcku1 lbnu1 bndu1 lkfu1 fplu1 cwhu1 mmtu1)

Flaming Gorge-North Slope (hewu1 hiru1 hpsu1 scku1)

Green River Basin (kndw4 hmkw4 erdw4 sniw4 kllw4 lopw4 nflw4 trpw4 grw4 scdw4 bgsw4 kgcu1 hpsu1 hiru1 el
cwhu1 bndu1 fplu1 lbnu1 btlw4 blsc2 burc2 colc2 crsc2 dvdw4 drlc2 elkc2 lync2 oldw4 resc2 rcpc2 srsu4 towc2

Green abv Fontenelle (snw4 scdw4 trpw4 bbsw4 erdw4 lopw4 grw4 kndw4 nflw4 ekpw4)

Ham's Fork (kllw4 hmkw4 incw4)

Little Snake (btlw4 dvdw4 oldw4 srsu4 wpkw4)

Price-San Rafael (bufu1 mcdw1 rpru1 seeu1 wrvu1 clcu1 dcpu1)

Upper Green (snw4 scdw4 trpw4 bbsw4 erdw4 lopw4 grw4 kndw4 nflw4 ekpw4 bgsw4 incw4 kllw4 hmkw4 hewu

White (blsc2 burc2 rcpc2 tlsc2)

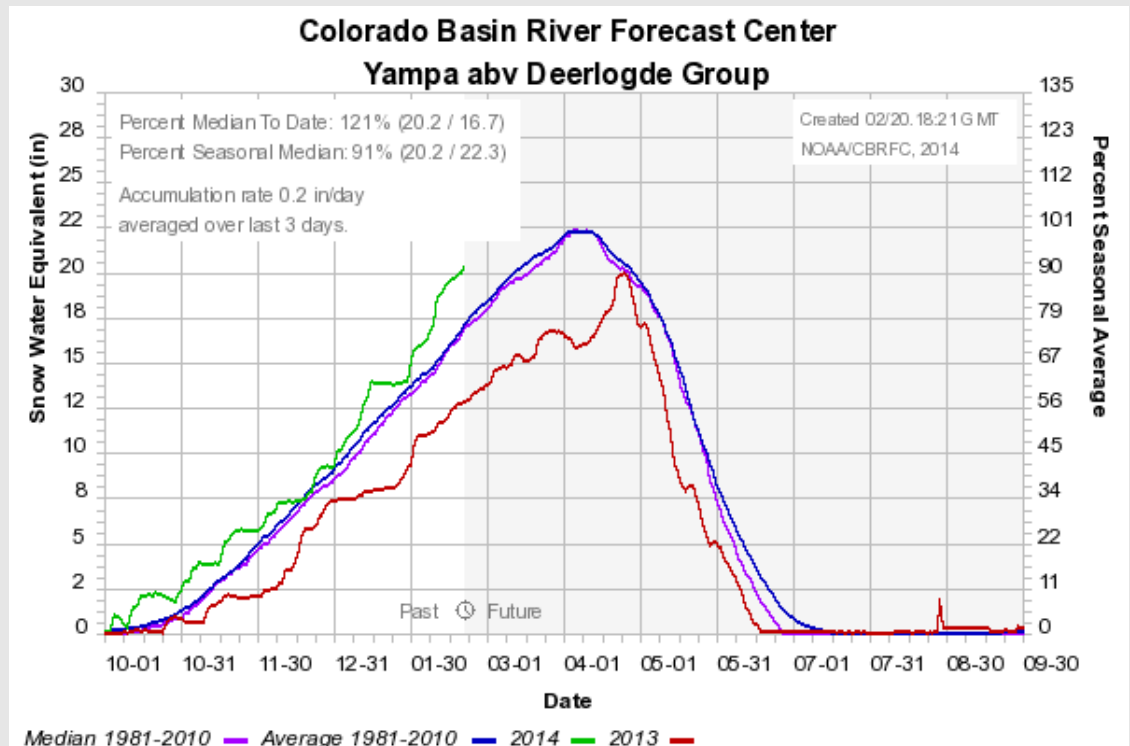
Wind Rivers (bgsw4 ekpw4 kndw4 nflw4)

Yampa-White (dvdw4 oldw4 srsu4 btlw4 wpkw4 elkc2 towc2 drlc2 resc2 crsc2 blsc2 burc2 rcpc2 tlsc2)

Yampa abv Deerlogde (dvdw4 oldw4 srsu4 btlw4 wpkw4 elkc2 towc2 drlc2 resc2 crsc2)

Yampa abv Maybell (crsc2 drlc2 elkc2 resc2 towc2)

Snow Groups

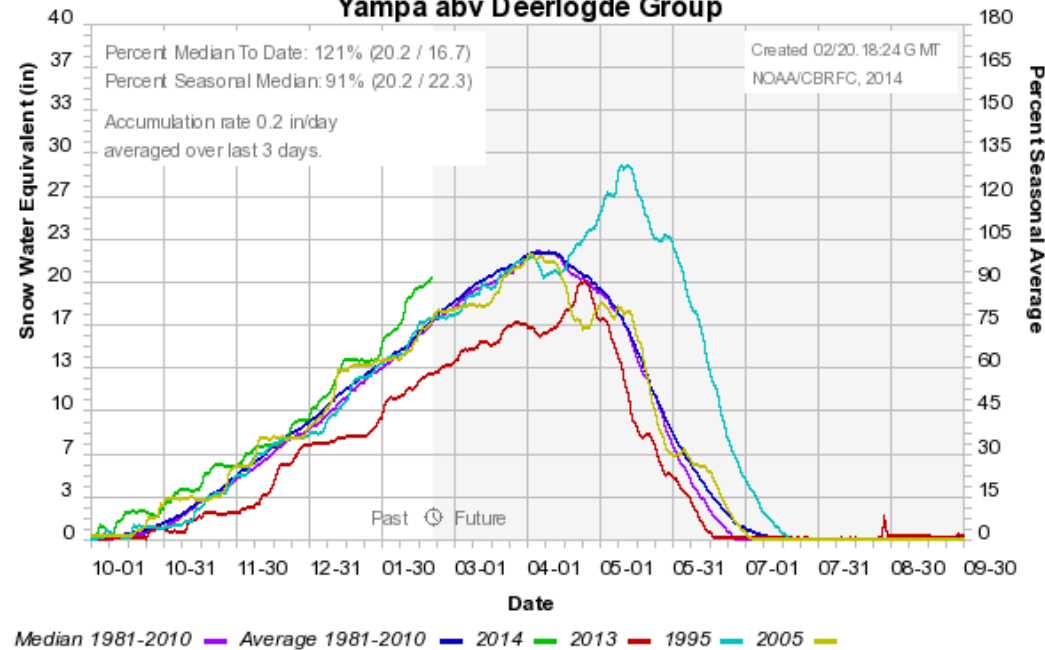


Comparison Ability

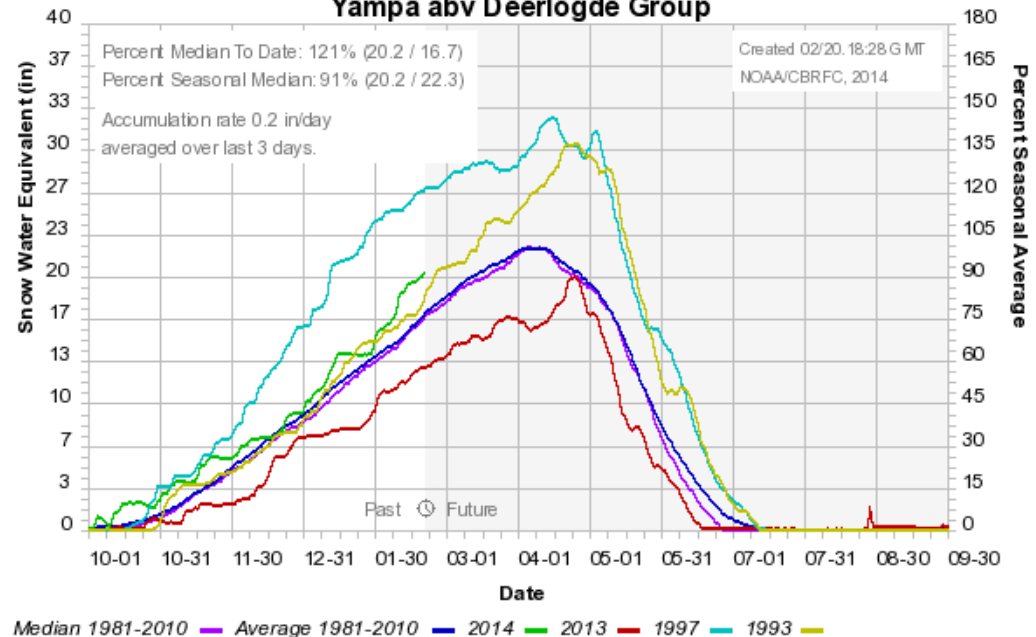
← closest pattern to current year

maximum years →

Colorado Basin River Forecast Center
Yampa abv Deerlogde Group



Colorado Basin River Forecast Center
Yampa abv Deerlogde Group

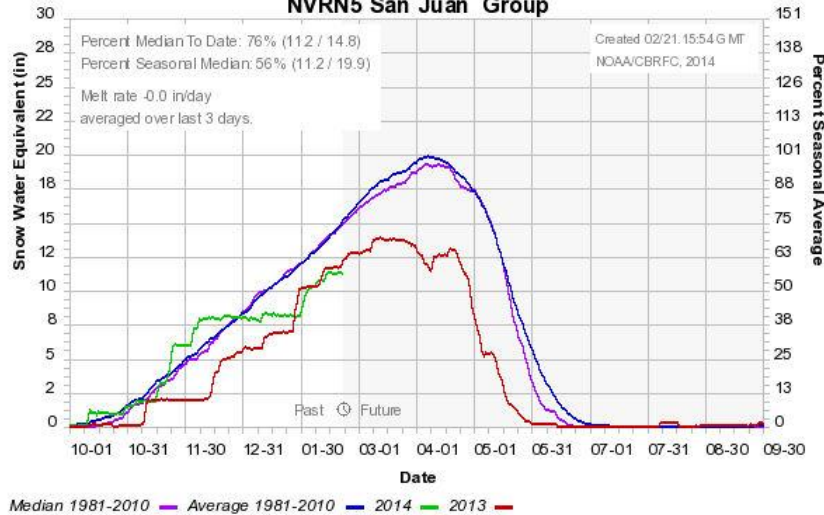


Make sure you are comparing apples to apples

NVRN5 San Juan Snotel Group

Colorado Basin River Forecast Center

NVRN5 San Juan Group



Missing Data Alerts

median
avg
2014
WCSC2 in 2014 only has 92/144 63%
2013
CHAN5 in 2013 only has 224/365 61%

Group plots show a simple average of the individual stations.

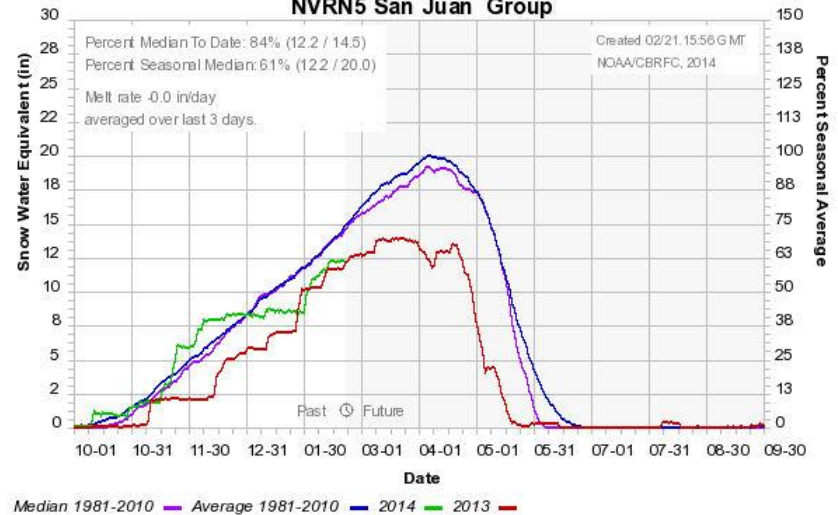
Select multiple years and/or stations. Be sure to use your systems key-click combination to avoid inadvertent deselection.

Years	Stations	Data Type	Y axis	Similar/Historical Years
median	BRTC2 BEARTOWN	Daily Data	Percent Seasonal Average	Off
avg	CHAN5 CHAMITA	Monthly Data	Percent Average to Date	Closest Pattern
2014	CUMC2 CUMBRES TRESTLE			Peak to Date
2013	LPDC2 LILY POND			
2012	MDLC2 MIDDLE CREEK			
2011	STPC2 STUMP LAKES			
2010	URGC2 UPPER RIO GRANDE			
2009	USJC2 UPPER SAN JUAN			
2008	VALC2 VALLECITO			
2007	WCSC2 WOLF CREEK SUMMIT			
2006	AGUU1 AGUA CANYON			
2005	APSC2 APISHAPA			

NVRN5 San Juan Snotel Group

Colorado Basin River Forecast Center

NVRN5 San Juan Group



Missing Data Alerts

median
avg
2014
2013

Group plots show a simple average of the individual stations.

Select multiple years and/or stations. Be sure to use your systems key-click combination to avoid inadvertent deselection.

Years	Stations	Data Type	Y axis	Similar/Historical Years	Station Links
median	BRTC2 BEARTOWN	Daily Data	Percent Seasonal Average	Off	BRTC2
avg	CUMC2 CUMBRES TRESTLE	Monthly Data	Percent Average to Date	Closest Pattern	CUMC2
2014	LPDC2 LILY POND			Peak to Date	LPDC2
2013	MDLC2 MIDDLE CREEK			Current Observation	MDLC2
2012	STPC2 STUMP LAKES			Highest Year	STPC2
2011	URGC2 UPPER RIO GRANDE				URGC2
2010	USJC2 UPPER SAN JUAN				USJC2
2009	VALC2 VALLECITO				VALC2
2008	AGUU1 AGUA CANYON				
2007	APSC2 APISHAPA				
2006	AROC2 ARROW				
2005	ARPC2 ARAPAHO RIDGE				
2004	ATAI1 ATLANTA SUMMIT				
2003	RAMN5 RATEMAN				

Interface exists to
create snow groups

Check existing groups
first

Years	Stations	Data Type
median	PROA3 PROMONTORY	Daily Data
avg	PRPC2 PORPHYRY CREEK	Monthly Data
2014	PRSN2 POLE CREEK RS	
2013	PRVC2 PARK RESERVOIR	
2012	PSUU1 PARLEYS SUMMIT	
2011	PWDW4 POWDER RIVER PASS	
2010	PYSU1 PAYSON R.S.	
2009	QMZN5 QUEMAZON	
2008	RACN2 RAINBOW CANYON	
2007	RAWC2 RAWAH	
2006	RBSU1 ROCKY BASIN-SETTLEME	
2005	RCKU1 ROCK CREEK	
2004	RCPC2 RIPPLE CREEK	
2003	REFU1 REES FLAT	
2002	RESC2 RABBIT EARS	

<input type="checkbox"/> Show Yearly Plots
<input type="checkbox"/> Show Averages on Yearly Plots
<input type="checkbox"/> Show Shaded Individual Daily Max/Min Station Values on Group Plot
<input type="checkbox"/> Show Dotted Line Individual Daily Max/Min Station Values on Group Plot
<input type="checkbox"/> Show Missing Data on Group Plot
<input checked="" type="checkbox"/> Show Missing Data Alerts
<input type="checkbox"/> High Resolution
<input type="checkbox"/> Show Tabular Data

Apply

Group Category

Great Basin
Lower Colorado
Green River
Upper Colorado
Gunnison/Dolores
San Juan
Forecast Points
Public

Group Name

Cottonwood Canyons

Save

Y axis

Percent Seasonal Average
Percent Average to Date

Similar/Historical Years

Off
Closest Pattern
Peak to Date
Current Observation
Highest Year
Lowest Year



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[HOME](#)

[RIVERS](#)

[SNOW](#)

[WATER SUPPLY](#)

[RESERVOIRS](#)

[WEATHER](#)

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Forecast Group

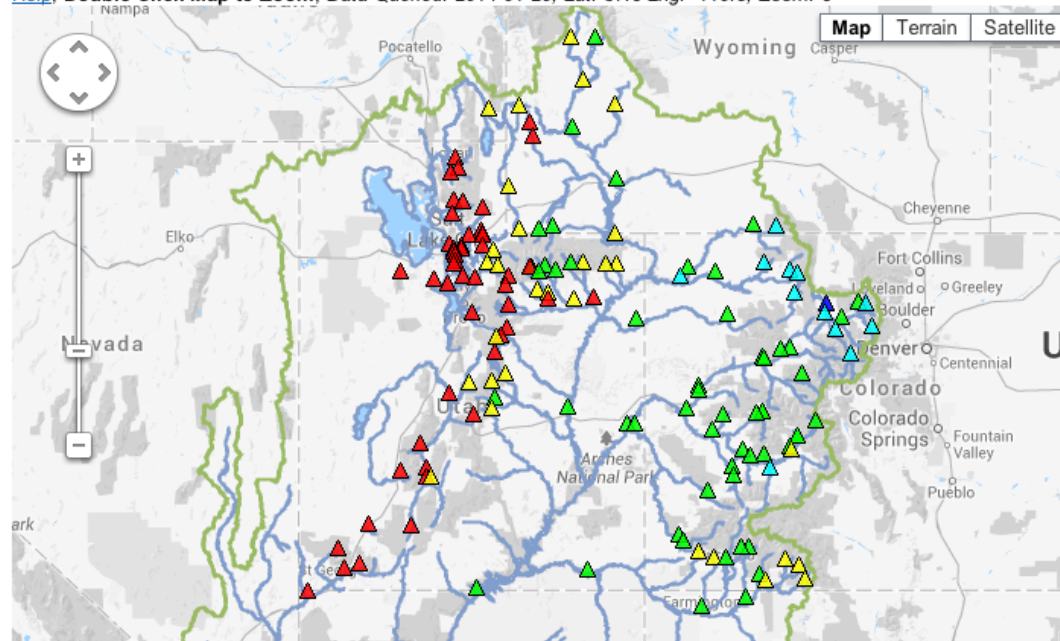
CBRFC

Overlays

- ☒ Rivers
- ☒ RFC Boundary
- ☐ Forecast Groups
- ☐ Basins

Snow Sites

- ☐ All
- ☐ No Data
- ☐ No Average
- ☐ < 7000 ft
- ☐ 7000-8000 ft
- ☐ 8000-9000 ft
- ☐ 9000-10000 ft
- ☐ > 10000 ft



Water Supply Forecasts

- ☐ Official
- ☒ ESP Percent Average
- ☐ ESP Percent Median
- ☒ < 70%
- ☐ 70-90%
- ☐ 90-110%
- ☐ 110-130%
- ☐ > 130%
- ☐ Regulated
- ☐ No Forecast

Snow

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Department of Commerce

RIVERS

Conditions Map
Conditions List
Peak Flow List
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Recreational Forecasts
Text Products
5 Day Flood Outlook
Hydro Data
AHPs

SNOW

Conditions Map
Conditions List
Snow Groups

WATER SUPPLY

Forecast Map
Forecast List
Discussion
Publication
Publication Archive
Specific Site Archive
Daily ESP
Text Outlooks
Documentation
Precipitation
Temperature
Soil Moisture
Internal Tools

RESERVOIRS

Conditions List
Damcrit
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DamBreak

WEATHER

Forecast
Observed
Text Products
Radar
Satellite
Legacy

CLIMATE

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Climate Change
Data and Indices
Forecasts
El Nino and MJO

HELP

General
Water Supply Forecasts
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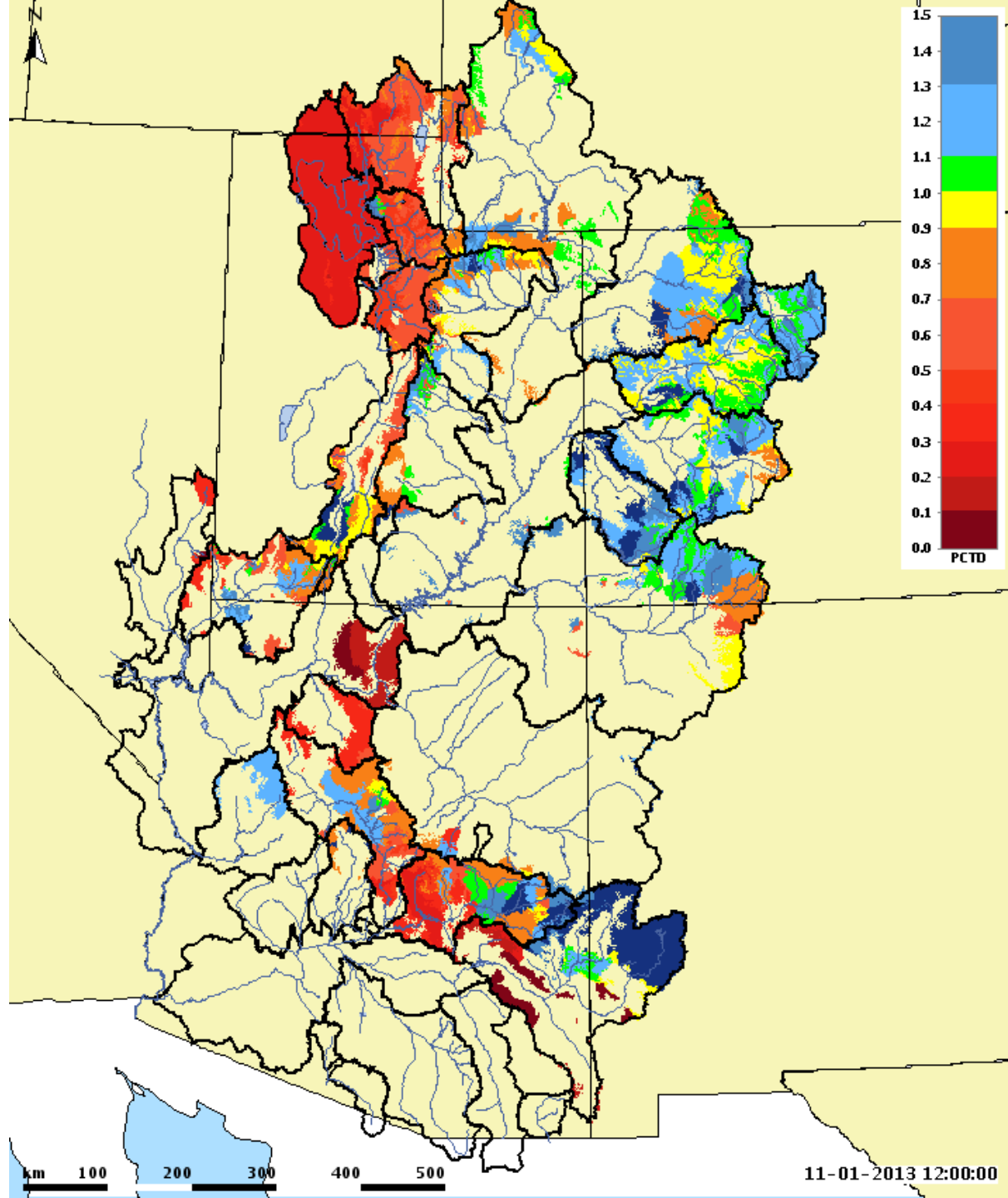
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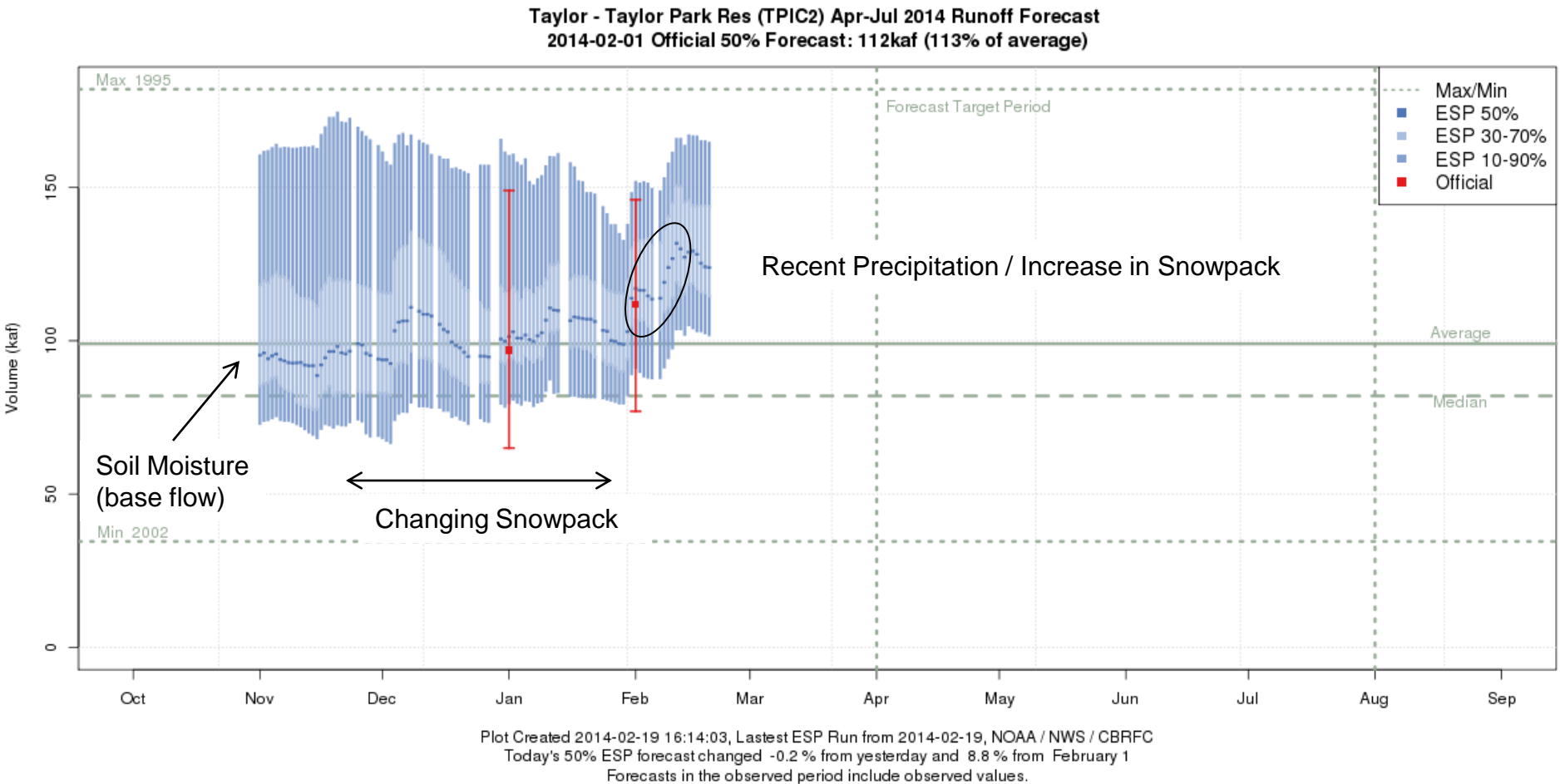
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Old SDM

Model Soil Moisture



Tracking basin conditions to explain model trends



Colorado Basin River Forecast Center Stakeholder Forum

Beyond The Streamflow Forecast

Seasonal Discussions / Seasonal Trends

- Provide water supply forecast discussions

 - Update more frequently than once/month

 - Started pushing these out via email subscription

- Graphics to summarize basin conditions / trends



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[HOME](#)

[RIVERS](#)

[SNOW](#)

[WATER SUPPLY](#)

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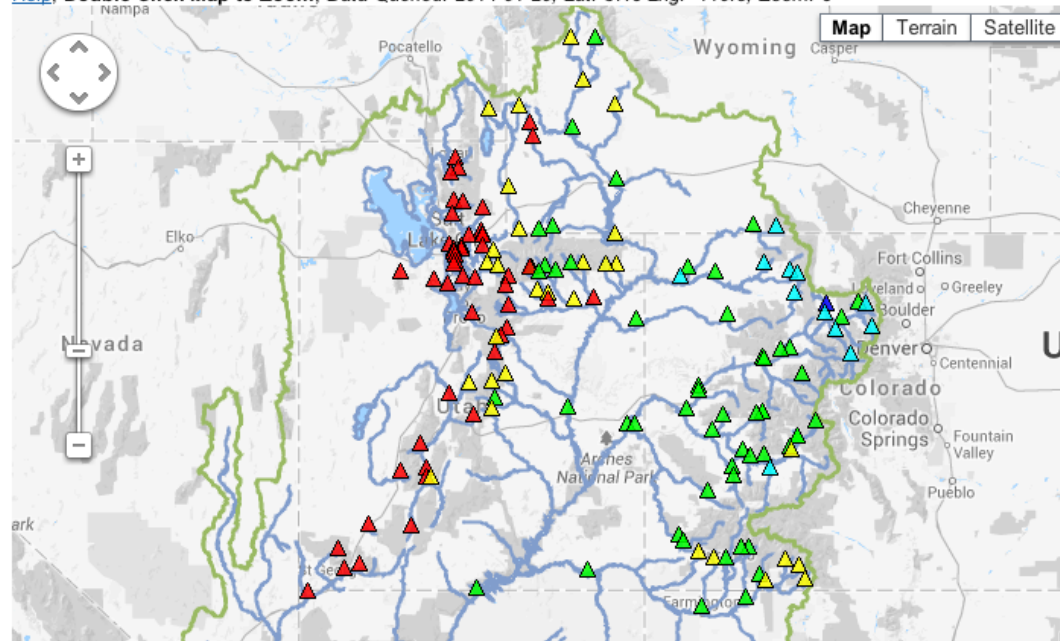
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RIVERS

Conditions Map
Conditions List
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Recreational Forecasts
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5 Day Flood Outlook
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SNOW

Conditions Map
Conditions List
Snow Groups

WATER SUPPLY

Forecast Map
Forecast List
Discussion
Publication
Publication Archive
Specific Site Archive
Daily ESP
Text Outlooks
Documentation
Precipitation
Temperature
Soil Moisture
Internal Tools

RESERVOIRS

Conditions List
Damcrit
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WEATHER

Forecast
Observed
Text Products
Radar
Satellite
Legacy

CLIMATE

Hydroclimatology
Climate Change
Data and Indices
Forecasts
El Nino and MJO

HELP

General
Water Supply Forecasts
Peak Forecasts

OFFICE

News
Email Updates
Information
Contact Us
Papers and Presentation
Podcasts
Downloads

LINKS

NWS Offices
Other Links
Wiki
Links
Schedule
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February 1, 2014 Water Supply Forecast Discussion

The [Colorado Basin River Forecast Center \(CBRFC\)](#) geographic forecast area includes the Upper Colorado River Basin, Lower Colorado River Basin, and Eastern Great Basin.

Seasonal Water Supply Forecasts:

Quick Summary:

Water supply forecasts for the Colorado Basin vary greatly over the area. Above average April-July runoff volumes are expected in the Yampa and the Colorado River above Cameo. Near to above average volumes are forecast for the Gunnison and Upper Green Basins, with slightly below average forecasts in the San Juan Basin. The Lower Colorado River Basin has been very dry and much below average volumes are forecast. The Great Basin is expecting below average volumes. The disparity in snowfall this past month, with most storms reaching the upper Colorado basin from the northwest, and bypassing the rest of the CBRFC's area, combined with widely varying soil moisture conditions had the greatest impact on this month's forecast updates.

February 19, 2014 Water Supply Forecast Discussion Update

The [Colorado Basin River Forecast Center \(CBRFC\)](#) geographic forecast area includes the Upper Colorado River Basin, Lower Colorado River Basin, and Eastern Great Basin.

Seasonal Water Supply Forecasts:

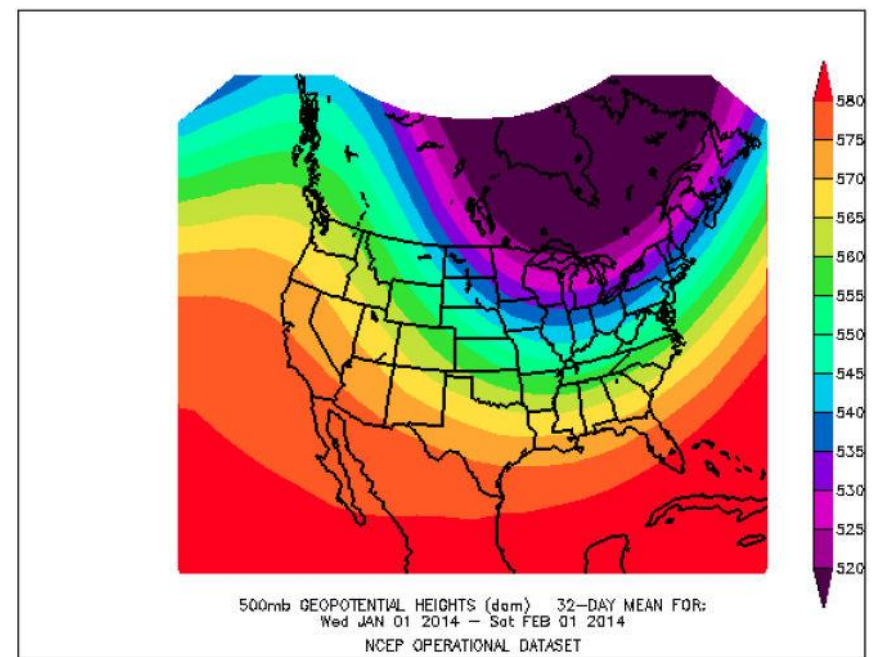
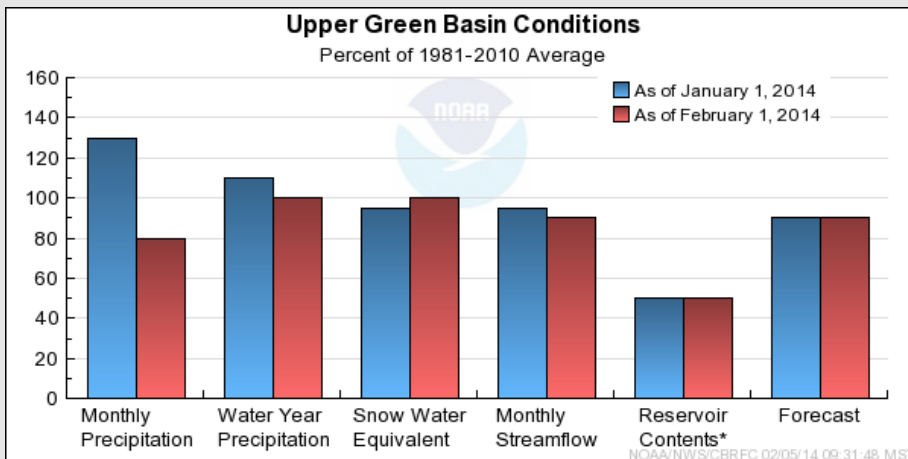
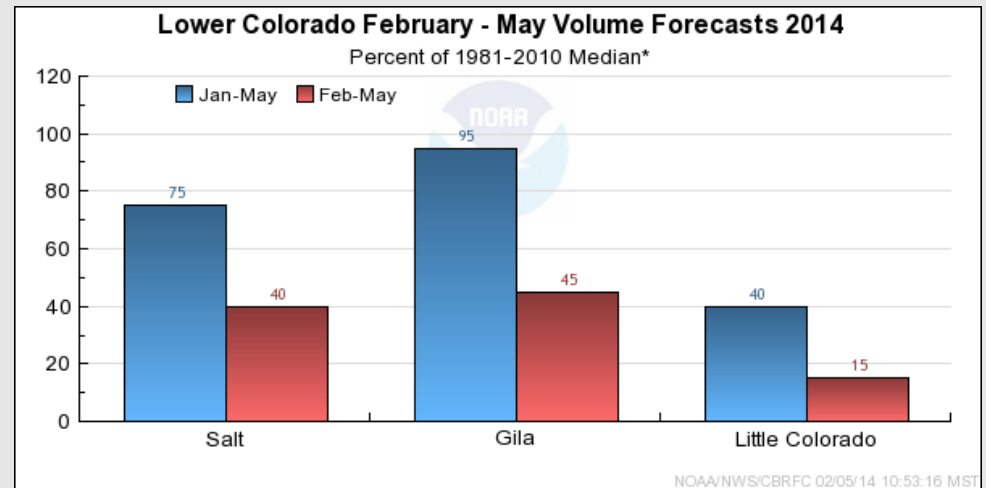
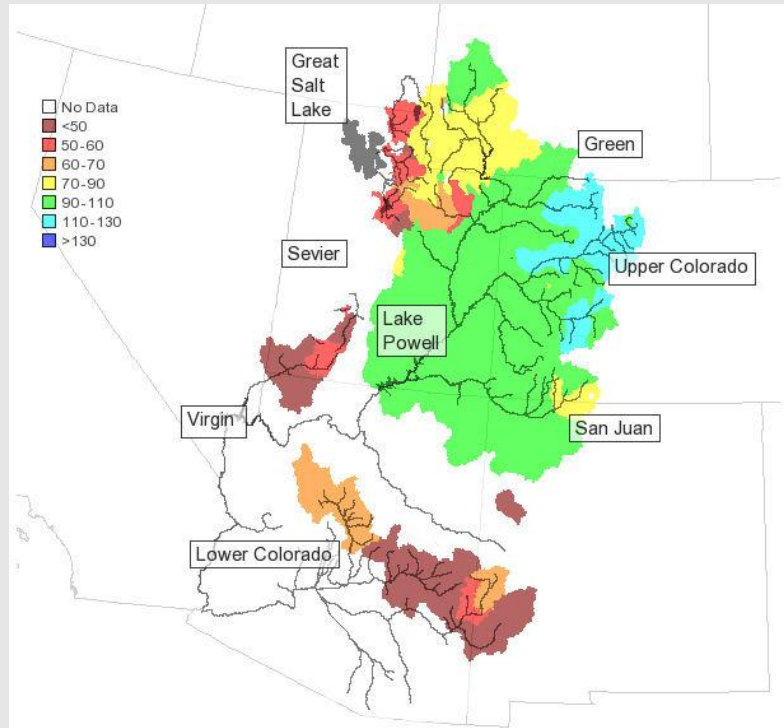
Summary:

Since the beginning of February, several storms produced significant amounts of snow in the Upper Green River Basin. Some locations received 6 inches of water during the first half of February which is 300-400 percent of average.

The Colorado River Headwaters, northern Great Basin, and upper Gunnison River Basin also experienced a significant increase in snow. Precipitation in these areas ranged from 150 to over 200 percent of average through mid February.

The map below shows percent of average April through July forecast volume based on the CBRFC guidance model, as of February 18th. Significant increases occurred in the areas aforementioned. Model guidance as of mid February indicates April-July volumes in the 120 to 150 percent of average range in the upper Gunnison, Colorado River Headwaters and upper Green Basin. As of mid February the Fontenelle inflow forecast is for 950 KAF (130% of average), Blue Mesa Inflow is 815 KAF (121% of average), and Lake Powell Inflow 7.7 MAF (108% of average).

Graphics to help describe the situation



Mean upper air pattern during January 2014.

Colorado Basin River Forecast Center Stakeholder Forum

Beyond The Streamflow Forecast

What is the most pertinent information and how can we best provide it ?

How do we keep it simple to access yet informative ?

How useful is the information we currently provide ?

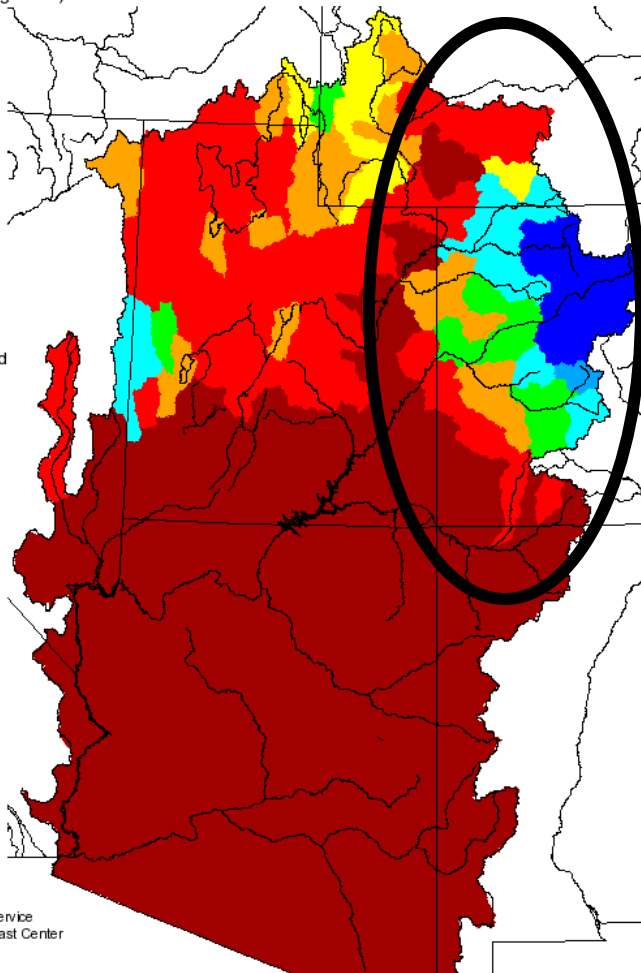
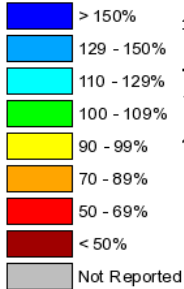
Refocus on what is important: Areas that are primary contributors to seasonal runoff

January 2014 Precipitation – contributing areas

Monthly Precipitation for January 2014

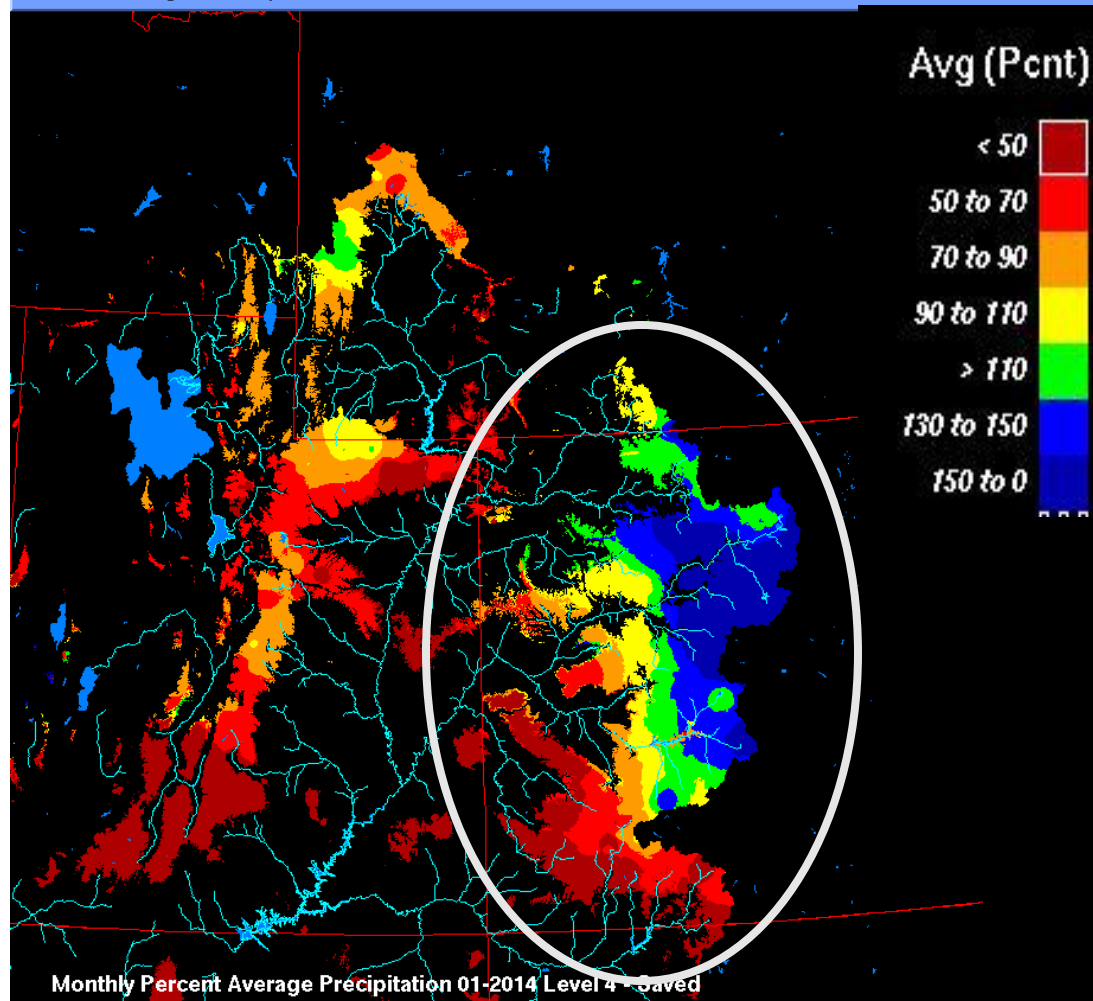
(Averaged by Hydrologic Unit)

% Average



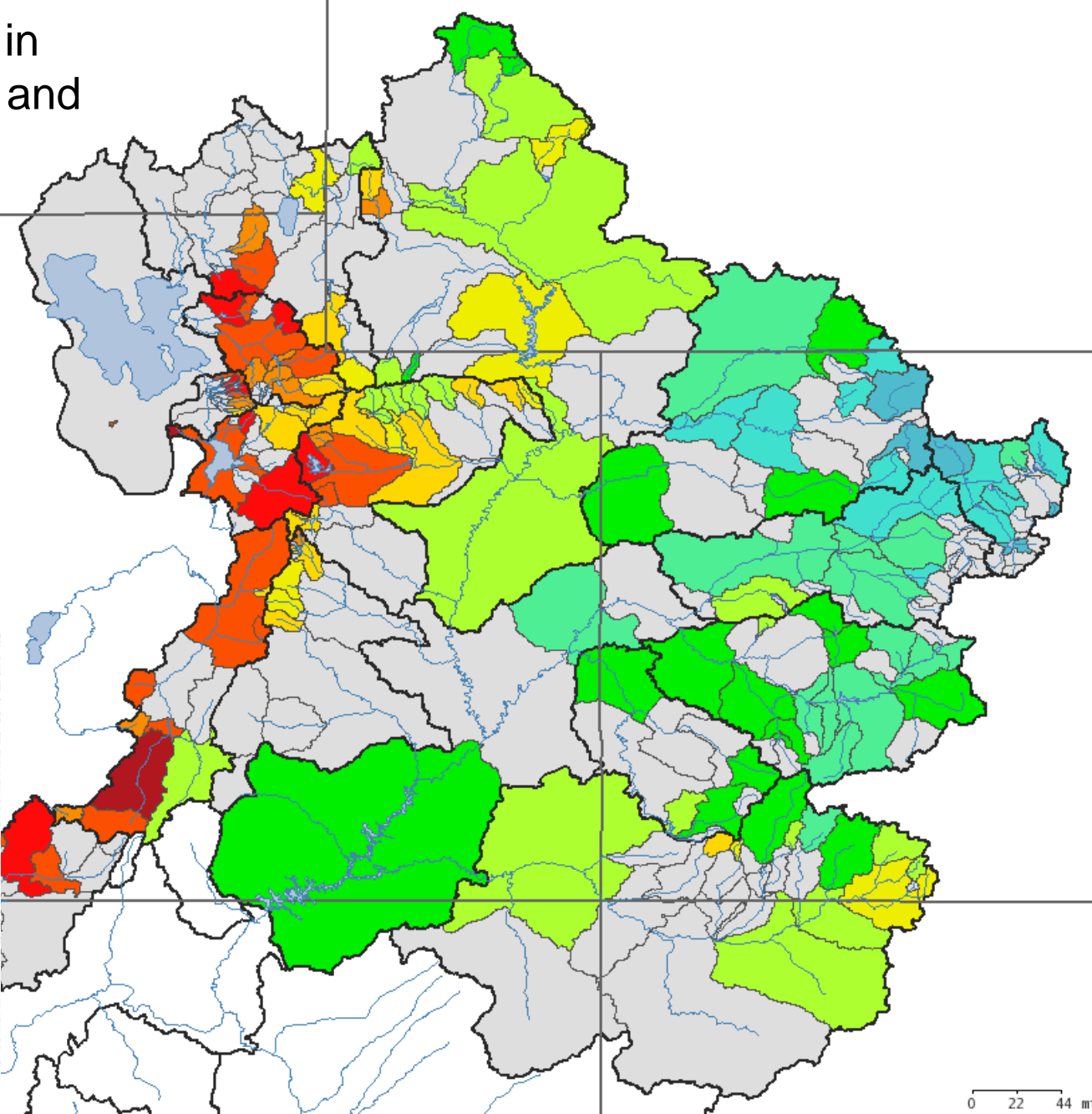
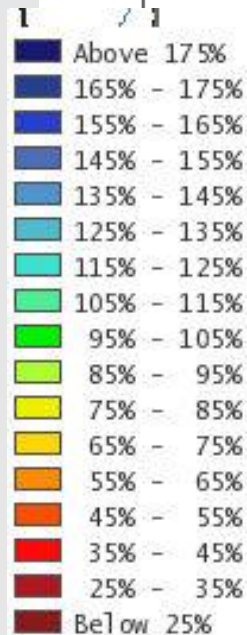
Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbafc.noaa.gov

File Edit Backgrounds Options

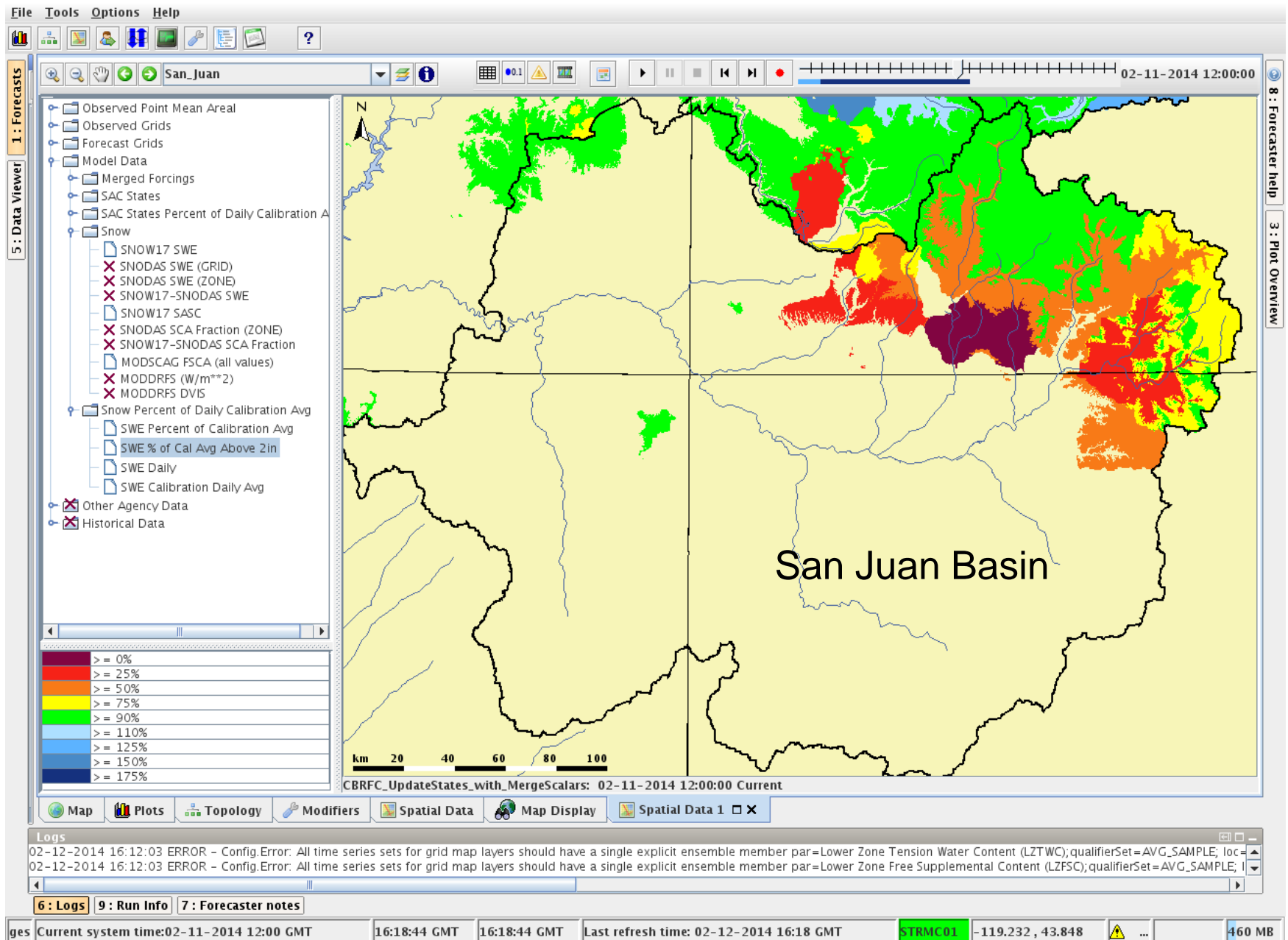


February 1st Water Supply Forecasts

Spatial displays in
addition to plots and
lists



Snow – As our model sees it



Obtain Information by River Basin

River Conditions

fgrp=SIXCKS

Search Points

Forecast Group

Six Creeks-Jordan

Gunnison

Dolores

Lake Powell

Green

Upper Green

White-Yampa

Duchesne-Price

San Rafael-Dirty Devil

San Juan

San Juan

Great

Bear

Weber

Six Creeks-Jordan

Provo-Utah Lake

Salt Lake

Sevier

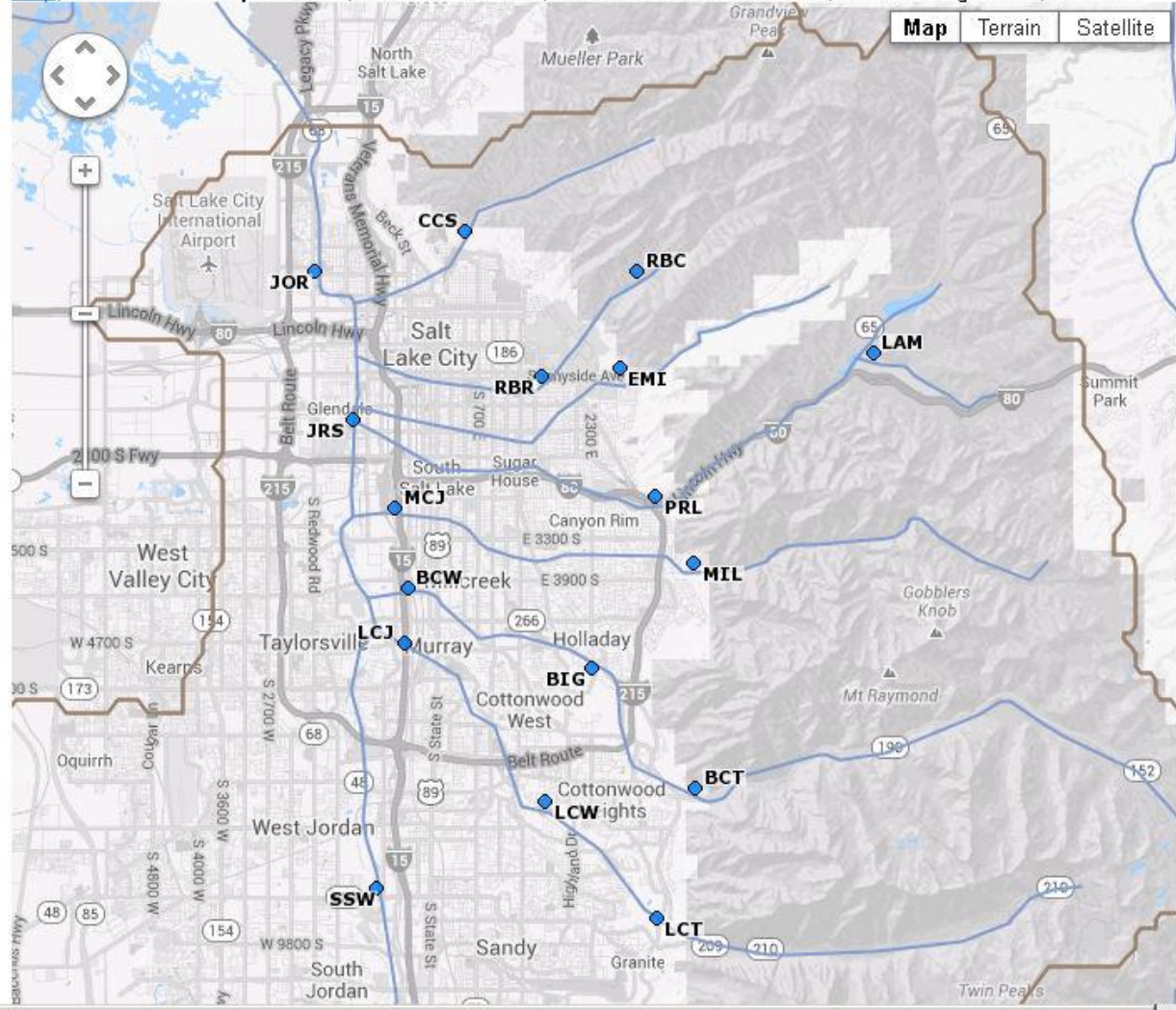
Sevier

Virgin

Virgin

- ☐ No Data
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[Help](#), Double Click Map to Zoom, Data Queried: Wed, 12 Feb 2014 09:00:02 -0700, Lat: 37.6 Lng: -110.5, Zoom: 6



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Simple Text Format – Pushed Via Email

<u>File</u> <u>E</u> dit <u>S</u> earch <u>P</u> references <u>S</u> hell <u>M</u> acro <u>W</u> indows <u>H</u> elp						
San Juan River Basin						
	Period	MP	MP%	RMAX	RMIN	AVG
	-----	----	----	----	----	----
San Juan River						
Pagosa Springs	Apr-Jul	197	92	265	131	215
Carracas, nr	Apr-Jul	320	84	460	215	380
Rio Blanco River						
Pagosa Springs, nr, Blanco Dam	Apr-Jul	47	87	65	34	54
Navajo River						
Chromo, nr, Oso Div Dam, blo	Apr-Jul	55	85	78	37	65
Piedra River						
Arboles, nr	Apr-Jul	210	100	270	137	210
Los Pinos River						
Vallecito Res, Bayfield, nr	Apr-Jul	205	106	250	137	194
San Juan River						
Navajo Res, Archuleta, nr	Apr-Jul	660	90	950	410	735
Florida River						
Lemon Res, Durango, nr	Apr-Jul	50	91	70	40	55
Animas River						
Durango	Apr-Jul	415	100	530	305	415
San Juan River						
Farmington	Apr-Jul	1020	93	1430	660	1100
La Plata River						
Hesperus	Apr-Jul	18.0	78	27	11.0	23
San Juan River						
Bluff, nr	Apr-Jul	1000	91	1420	635	1100
Mancos River						
Mancos, nr	Apr-Jul	22	71	34	10.0	31

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